## A Remarkable Telephone Record

## 18 out of 23 Municipal Systems Using Our Telephones

$T \mathrm{H}$
HE 'majority of the municipally-owned telephone systems in the Province of Ontario are using Canadian Independent Telephones and Equipment on their lines. This company got the telephone business of these systems in competition with all other telephone manufacturers. Our record speaks for itself. For example, take the latest twenty-three municipal telephone systems that have been built in Ontario. Eighteen are using our telephones. Here is the list:

Using Our Telephones
Tay
Medonte
Chingancousy
Huron \& Kinloss
Oliver
Shuniah
Bruce
Hay
Brooke
Dawn
Euphasia
Beaver Valley
Floss
Moore
Waterloo
McDonald \& Meredith
Fort Francis
Brighton


Our Bulletins are FREE SEND FOR THEM

The No. 3 tells how to build telephone lines-shows the
most modern and efficient methods. The No. 4 describes our magneto telephones in detail.

If you would like to write to any of the municipal systems listed and get their experiences, we will be glad to furnish you with the names of the secretaries. 'Or we will be glad to help you ourselves by supplying you with full information as regards petitions, by-laws, steps to take to incorporate, cost estimates, etc.

The success of the Canadian Independent Telephone Company has been directly due to the superior quality of our telephones and indirectly to the fact that we are directly interested in the success of every locallyowned system. Our best advertisement is the loyal support we enjoy from our customers, who seemingly never miss an opportunity to say a good word for us and our telephone equipment.

Our telephones, switchboards, telephone wire and all kinds of equipment are fully guaranteed. The purchaser is protected in every way. The telephones, for instance, are sent for FREE TRIAL so that they can be thoroughly tested before risking the expenditure of a dollar.

Canadian Independent Telephone Company, Limited 20 Duncan Street, Toronto


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| of ditch $\begin{array}{l}\text { digsing. }\end{array}$ |

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| The Farmer's Advocate |
| :---: |
| zy flome Magazine |

Vol. XLIX

EDITORIAL.
Feeding value is by letting hay
ripe. Do not delity haying operations.
Each cultivation made at this season in creases the tons of silage and the bushels of roots. Pigs like clover, and they do better to get
right out in the padaock and pick it. Give them a chance. $\qquad$
A good hint is given to makers of dairy utensils in Prof. Dean's article this week. They should advertise. $\qquad$
Read how to make dairying pay in another column. 1t pays in Oxford County, it will pay in your county

If you see a weed pull it, spud it, hoe it out, cut it or cultivate it to death. It matters not how you kill it as long as you kill it.

When the mercury soars to 95 or 100 degrees in in the shade do you not wish you had put in some ice last winter to
cream sweet until delivered?

If you do not know what a District Representative is you should get acquainted with the one in you: district. A correspondent gives an out line of his experience elsewhere in this issue

We recently heard this remark, "Anybody can grow good crops in a favorable season." Can
they ? We do not think so, and besides there is a great difference in so-called good crops.

The time is at hand when a new leaf will have to be turned in hay culture if creditable records are to be made on many farms in the older Canadian provinces. Timothy and clover fields are this season holding out distress signals like this: More nourishment and better tillage

With the increasing area and attention deed to vegetable and fruit crops, the hazards .June frosts become more serious. An efficient the meteriological service, during the critical periods, would be appreciated by gardeners and
$\qquad$
The athorities kaving used the baton, prison, ration, forcible feeding and ridicule without Wail on the Fnglish suffragettes, why not try hey want. the ballot? They would make less mble with it than they are doing now, and it
only a question of time anyway when they

nother war in the Balkans seems imminent. t people think a war so far away is not like to affect us in North America, and yet nciers tell us that the late Balkan war had ch we have heard so much recently. War is ys carried on at the expense of the people generally affects people other than those of
nations actually engrared

LONDON, ONTARIO, JUNE 25, 1914.
No. 1135

What Parliament Did.
Ther Dominion Parliament secently prorogued which the game of politics figured very largely as did also the Canadian Northern Railway kings fights staged as was the were no such bitter the previous year when case during the session bone of contention which wath the ing at each other until the Senate finally quashed it and the fight was over.
Among the commendable features of the past session was the passage of the Dairy Industry Act, a strenuous fight for which was put up by men's Associstions Advocate" and the various Dairyof butter substitutes, and no doubt will remain effective for years to come. It also provides fully for the punishment of those who attempt to manufacture renovated butter, and it is now possible by regulation to control the classification, marking and branding of the products of the dairy. Hon. Martin Burrell, Minister of Agriculture, brought in the bili, and he with parliament must be congratulated upon placing on our statutes such an Act to preserve and encourage the great industry of dairying, and do their just part in pacing it upon even a firmer basis than 1 Wor sister to the
A good sister to the Dairy Industry Act was passect to regutate the manufacture and sale of ly enforced all imitations and adulterated pro ducts must be truly labelled, and the word "maple" can only be used on the pure product of the maple tree. Canada's maple industry was, until this amendment to the Adulteration Act, in rather a precarious condition. The good old name maple was being used on all kinds of products to the detriment of the business. Proof the passage of these regulations which also cover honey
The Government also saw fit to increase the monerl aid to agriculture in the Provinces which tional institu equa mation and increst interect in formon ly throurh a hetter understanding of the busi-
ness.
We do not wish to comment one why or the
other on tariff changes more than to state that what the farming communities asked by way of a reduction on farm implements and also for free wheat was little heeded. The latter was not conceded, and the implement reduction amounted to Manufacturers seem to hold the whip hand when it comes to a tariff revision, and while the generavernd is downward the movement is slow and moneved manufacturers. However, the cut that tion. More would have been appreciated by
$\qquad$ stand on the question of militarism. There was little excuse for the increased expemditure, as
$\qquad$
$\qquad$
$\qquad$ allow armothing in to pass without more
conditions in their true light, and prove the folly of making Canada a military country. The op: position missed a good chance to justly criticize. vinced that members of either party think cor of buying tos with man more stituencies than they do of earning them by supforting good legislation and opposing the which works harm to their constituents. Where will this military expenditure end? The Government and the Opposition alike are to blame for the big start which has been made toward an armored and red-coated Canada, an expensive form of making millionaires out of a business with no utility to support the contentions made in favor of it. Technical education might have had a tives, and the profitab in profitable in most cases than armouries
bying of Mackenzie and Mann the incessant in the form of a $\$ 45,000,000$ Aid Bill. It seemed that aid could not be avoided, but nevertheless criticism of the methods of these financiers was in order, and the business of parliament was to get the best possible security for the people's money. The C. N. R. got the money. Its pro moters still hold a controlling interest, and are in an excellent position to further fatten their purses at the expense of the Canadian people. What could parliament do The road must go on and once again it was demonstrated that one or two clever financiers with money blo them can all was the attitude of the Senate One day the majority of the Senate came out against the aid and asked for more security. Simply bluff. The next day the men who led in asking for further security were the first to vote the aid in full. Opposition to the Bill was weak throughout with the exception of the stand taken by the government supporters Nickle and Bennett, the one bright spot in the debate, and the one incication that soone: or later independence is going lo show itself in strength in our politics parliamentary halls.
Last came the Farmers' Bank Bill which passed the Commons, but was given the hoist by the Senators, who, as described last week by reter McArthur, did some clever political to successiully place the blame on the other. It is a great game this political game, and the past session has demonstrated some really clever play ing of it. We need mo:e independent men on both sides of the House. The session was concluded by the senate displaying their devotion to law of nature.

## The Summer-Fallow

and summer-fallow is expensive, but a poor with weerts of all kinds is far more constly. This is the season to get after the weeds growing on the dirty run-down field which is or for winter wheat this fall. We agree that summer fallowing is expensive farming but if a field very dirty sometimes it is almost absolutely ne essary to follow the practice in order to clean it
and bring it up to suitable tilth to go ahead atd produce it up to suitable

The Farmer's Advocate

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lse the field is left bare of a crop to no purpose and weeds gain even a stronger foothold than if a spring cereal or hay crop had been grown upon the land. To be in the best condition the summer-fallow should be worked rather lightly, broad-share cultivator almost as frequently as orn ground is worked. It is necessary to retain moisture and it is absolutely imperative that weeds be kept below ground to weaken and destroy them. Many summer-fallows are a dis grace to their owners and not worthy' of the ame. They should be kept, just as clean his is impossible it is not the wisest practice to suminer-fallow

Nature's Diary
More erroneous ideas prevail concerning snake than in regard to any other group of Canadian
animals. I have already mentioned the idea tha all our snakes are dangerous to man and indicat ed how far this is from the truth. Another very snake is its stinger
In regard to the Rat.tlesnakes several in
correct notions are prevalent. In the first place Rattlers are supposed to be far more abundan in certain localities in the east of Canada than Niagara Glen in the gorge of Niagara River and
at the upper end of the Bruce Peninsula. In the former place I spent several days, always on the specimen. At Peninsula I was told of a place where Ihattlesnakes were very common. I went through and through a specimen, but not one did I see. Rattle snake Harbour, on Fitzwilliam Island, was
named because these snakes were supposed to so common there, but I could is highly probable that in earlier days there wet
entirely extinct, they are extremely rare. In fac
entirely extinct, they are extremely rare. Rattle
the only place where I have seen a wild Rater is near Go-Home Bay, Muskoka

Another erroneous idea is that a Rattlesnak may be rendered harmless by extracting the fangs; but the fangs are normally shed at intervals of about three months and there is always a The poison apparatus of the Rattlers consists of two long, hollow fangs, provided with an elongated orifice at their tips, and connected with a gland, situated behind the eye, which contains the venom. The fangs are fastened jo are closed bone of the upper ack against the roof of the mouth. As the jaws are opened they spring forward, ready for action. The ejection of venom is caused by the contraction against the glands of the muscles which close the jaws, and is purely voluntary, as the jaws may be closed without venom from the glands. The fangs are covered with a sheath of thin. White, membraneous flesh which is never withdrawn from them except in the act of striking. In striking the jaws are obened to such an extent. and the fangs so ele vated, that their tips point alned until the head has started forward, and it is during the latter part of the blow that the jaws are thrown open to their widest extent
he Rattler can strike a well-aimed hlow only at a distance of one-half its own length, though when greatly enraged it may strike winadily at
two-thirds its length. It never springs bodila its enemy, as is frequently supposed, such a feat being a physical impossibility for a snake.
The belief that the ace of a Rattlesnake be told from the number of rings in the rattie, and that each ring stands for a year is entirely rings does tell the age of the snake, but totally different way to the popular supposition as we shall see when we study the growth of the

When the young Rattlesnake is born, it is tail, which though vid button ald shaken in imita tion of the parents rattle produces no sound, as it is rigidly attached to the tail. Within a few days it sheds its skin, then grows rapidly and in the first ring of the, rattle is uncovered. Immediately after shedding the skin this ring is black and soft. It loosely encloses the base of the become thoroughly dry' and the tail is shaken, a faint, buzzing sound is produced, this being caused by the loosely attached button rasping against the dry segment to which it is fastened. savery succeeding ring is produced in exactly the same way, and as in the following years of its spring, mid-summer and fall, we see that if the button is still present, and we allow the button and first ring for the first year, and thras rings or each succeeding year we can ascertain the age have snake. Even if the button and some rings have been lost, but the rattle still tapers towards
the tip, we can estimate the number of lost rings and arrive approximately at the age. But if the rings are all of uniform size we can tell only that it is a fairly old snake.
The sound made hy a Rattlesnake, can hardiy be described as a "rattle" it is more like the rasping sound made by rubbing the edges of two
dead loaves ranidly together.

When cutting the hay, it is good practice $t$ have a man with a good sharp scythe mow all the also in those of the adjoining fields. There is soread to a greater extent than weed seeds are kinds of them to grow and mature in the fence Besides ketting rid of the weeds nanner and cut the corners add greatly to the appearance of the place. Get after the sow thistle,
C'anadian thistle, quack grass, curled dock, burwould ho better as a gene:al thing to have fewe fences, but where they are the next hest thing
a careful mowing of all fence corner growth. Some countries are crying out for emigration and others for immigration to cure their local hacdly a country in the world to-day physicalls
desirathe for human hatritation. Which is realis wer-crowded. What thes med is conditions that

## THE HORSE.

## Indigestion in Horses---VI

 Enteritis or inflammation of the bowels is one to which the hose is in a few hours. Many of the diseases of the digestive organs, some of which have already but we will now discuss it as a primary afiec tion. Any portion of either the small or lar intestine is liable to be the seat, and in some cases the greater part of is usually first attacke but the inflammation extends and involves the middle or muscular and also the outer coat, and there is often an extravasation of blood into the anal, due to rupture of the small blood-vessels. Causes.-The principal causes are fatigue, watering with cold water when heated, but, like other intestinal diseases, it frequently occurs without well-marked causeSymptoms.-The first well-marked symptoms are usually those of abdominal pain, evidenced by uneasiness, stamping of the fo the flank of the to lie down, etc. These symptoms are, however, usually preceded by some degree of con-
stitutional disturbance (which may pass unno ticed) as shivering, acceleration of the pulse and respirations, repeated evacuation of small quantities of semi-liquid faeces and general depression; gested the membranes soon become deeply contracted and sometimes of a brownish color; the appetite of course is lost; the pulse is hard, upon pressure; the abdominal muscies more or less contracted. In some cases slight bloating is noticed. In a variable time the symptoms of and excitement; he stamps with his feet, strikes at his abdomen, lies down, but usually does so very carefully, often making several attempts or probably endeavor to lie on his back: turn his eyes toward his flank, pant, blow and perspire freeiy. There are no sharp paroxysms of pain
with periods of ease as in cases of spasmodic colic. The pain is constant, distressing and agonizing, In some cases he will stand for hours with his head in a corner, and paw persistently with one or both feet. In other cases he will walk aimlessly around the stall or paddock in a circle, apparent almost bise head hard, full and frequent, varying from 80 to 120 per minute, but generally decreases in strength and fullness, and becomes thready and almost or quite imperceptible. He sighs or groans from
pain and perspiration drops off the body. The skin is seldom dry, at one time hot and an other cold, the countenance becomes haggard, the eyes expressive of delirium with the pupils
dilated. He may now throw himself about in a dangerous manner, but usually stands as stated, or moves aimlessly about; then stand and balance himself as long as possible, when he will fall and cases with a few convulsive struggles. In other stand quietly. even drink a little water or endeavor to eat, and his breathing becomes more that recovery is taking place, but the symptoms indicate that mortification is commencing; the haggard expression remains, the pulse continues
imperceptible at the jaw, cold sweats bedew the imperceptible at the jaw, cold sweats benew the
body, the abdomen becomes bloated, he trembles ears and legs become cold, mouth and breath
cold and often foul smelling, the lips drop pendulous, the eyes become glassy, and in a vary remaining ingctive to the last. If, however, i three or four hours from the commencemen of toins, if the surface of the body becomes dry, if
there be a passage of faeces or gas, the pulse be coming softer and less frequent, and the charad teristic anxiety of expression disappears, a favor Treatment. - As the mucous tract of the bowels is the pwimary seat of trouble treatment must and although there usually is un inactive condion no account be given. Treatment must tend to relieve pain and check movement of the in
testines. For these purposes opium must he ad Iministered in large doses. In the early stages
when the pulse is full and strong, if depression be not well marked, it is good practice jugula ans. two hours until the symptoms are relicved to the abruge out of hot water should be appric
and care must be taken to clothe the patient If after abatement of the symptoms the bowen. remain torpid (as they generally do) the removal of this torpidity must not be attempted by the administration of drastic purgatives. Very
small doses of raw linseed
oil, say 4

- may be given every eight nux vomica he contents of the rectum removed by injections petite returns the most easily digested apbran and boiled linseed should be civen, and as eating of dry food prevented until the bowels ommence to act, and then solid foods should b given in small quantities for a few days.

Where Is the Horse Business Going It is no use saying "the horse business is as
good as ever," because any one acquainted with he trade at all knows that to be untrue. How ever, we should not get too pessimistic, as prices horse marts. Motor power has usurped as it were the place that ordinarily would have been occupied in the growing trade of towns and cities eeming with electric and chas-propelled a city ences for transportation and from April 30 . 1911 to April 30, 1914, auto delivery wagons and auto trucks increased from 799 to 4,207 or 3,408 in Ill. During the same time, horse-drawn vehicles Where short, heavy hauls are nece or 3,685 in all. will still hold sway. It is the long weighty car go that makes the truck a profitable means of ransportation. This circumstance in itself does not explain the weakening of the trade in horses, but other cities have a like tale to tell and alment of horses that one would expect the number Mone the less significant. intensive farming now being practiced necessitates greater number of horses, and when the it will lose a part of its advertising value to its owners. The up-to-date, horse-equipped vehicle, many even have a greater value in that regard, and when they are at a par in that respect de-
cision will hinge upon economical operation. When that time comes we are led to believe that the battle will be more equal. Tractors will plow and seed the prairies, but when it comes to
cultivating we must depend on the horse ultivating we must depend on the horse. This ng in the West is gradually yet surely moving backward from the railroads. In proof of this the twenty carloads of Western hogs recently offered on the Toronto market is substantial evifter its own horse business, for they are breeding good horses there in numbers. However, the Eastern States of the Union are now taking a ansiderable number of our eastern-bred animals, and they are willing to pay a fair price. The
horse has without doubt seen a period of slight depression, but circumstances dö not warrant any
extreme pessimistic view for the future.

## LIVE STOCK.

## Our Scottish Letter

May has gule, and taking the two months, April and May together it may be said generally better seed-time. The genial warmth of the gotten. Hill farmers have had an extraordinary lambing time, and arable farmers an abnormal seed-time. The only' drawback at present on the second day of June is that we could do with
more moisture accompanied by greater warmth. more moisture accompanied by greater warmth.
The air in the evenings is still chilly, and in some places the growth of turnips is slow pediency to sow swedes in April. May has an
evil reputation for cold "snaps" and such a thing as a May frost which blights the early potato genial warmth of the second fortnight in April was tempting, and men rushed forward the work The fickle character of the balmy atmosphere. done some damage. The growth of the roots is sot strong as one would like it to be and in consequence the fly is having some encouragement
in his attacks on the tender blades of the swedes. Nothing so ovprcomes the tactics of the fly as Junn has come it is to he hoped genial warmth and moisture may go hand in hand. times with Wh are having somewhat exciting times with
What is called the carrsing out of the policy of What is called the carrying out of the poricy of
re-ct onizing Scotland. We are endeavoring to
get
large or settlements have been made. Several strued so as to inflict injury on the very class been broken up, and wherts of the country have which it was the common desire to get back to carrying eight or nine have been planted. But in in lane or two cases, and they do not look well displacement of capital, and cases is bound to be when the facts are brought to light in the courts. claims for compensation are being tried. Of rise to trouble is the National Insurance Act. It course these involve a deal of work tried. ou profession, and expenses ane being piled up. cases in which kinds of cases for compensationland is called on to pay Agriculture for Sco landlord for depreclating his property, and the in which the Board is called on to pay compase tion to the big tenant who is being displaced in men who are to men who are to occupy his fields. The former latter. The amount of damage caused is the large extent hypothetical. There is such a thing as sentimental damage. A large farm near to tains that in esidence is taken. The landlord main lessened in in such a cass his property is 'seriously mansion-house, shootings and fishings, when his nearest neighbor was a tenant farming on a large scale, and socially the equal of the shooting tenant, would think twice before renting a place for sport, when his nearest neighbors were eight likely to be socially his equal. Besides, it might be urged, the tenant of the mansion-house and shootings might be sceptical about the bona fides of his eight or nine small tenant holders. They might be tempted to try a shot or cast a line
themselves, and in the eyes of a British sportsman the worst of all crimes is poaching. Letsman be brought before a country magistrate for beating his wife, he may get off with an admonition or at worst a fine, but let him kill a phea

been out of years. Old Joe as he ermed, has seen six tenants go out of the farm, and seven enter, and he has continued oyally to serve each
of thiese successive tenants. A portrait has ants. published showing "Old Joe" a n d his white mare which is 86 years of age standing in one of the Cam-
oridgeshire 1 a e s .
They are certainly a They are certainly a
wonderful pair, and
a b. oth a re greatly
valued by their present emplayer, Thomas Nee-
itt.. Old Joe has received one of the Royal Agricultural society's Long-service
Medals, and he well
deserves it. We heive deserves it. We have
had none with quite
such a long record in such a long record in
Scotland, but still we have had one with over sixty years
vice, and quite a number, both male an female, with the halfentury to their credit hese have received Agricultural Society' Champion Canadian-bred Clydesdale mare at the re. that
of the law. Hence there is a good deal of room speculation as to the amount of compensation aken under the condidions briefly outlined. There is another of Agriculture in Scotland in settling men on the, land. In some cases the proprietor of a comparatively small place, may be a poorer man
than his tenant. Two such cases are in my mind The owner desires to resume possession or occupancy of his own land and houses, and notifies who does not wish to move, applies to the Land Court to have it declared that he is a statutory small holder. This is a type of tenant createdi by statute in order to prevent a man who has done something to improve his holding being turned
out without cơmpensation. Such a man is not helped to find a new place. He is told that he shout remain now before the country, the smaller of thy two men is debarred from resuming posther man out. A case of this kind leaves a bad taste in men's mouths, and on points of law,
raised in one case of the kind in the Court of handlod, the i, and Court has been severely The small Holdings Act should never be con-Cong-service Medal, and that institution never spent money to better purpose.
The International Horse The International Horse Show at Olympia, London, has opened its gates to-day (4th June) This is a very bold venture. The show for the first few years of its existence was a phenomenal success. Last year it was not so successful, and it remains to be seen how it will fare this ylear. Whatever else it may fail to do, it has this to
its credit that it greatly fostered the breeding and "making" of harness horses and ponies. The depression in that class of stock is sufficiently marked, but it would have been much worse had it not been for the International Horse Show.
A great disaster bas befallen the ranks of the brcpders and'fanciers of harness horses and, ponies in the death of William Foster, Mel Valley, Wor cester, without doubt the most accomplished judge of a harness pony in the workd. He died very suddenly, and last week his stud was dis
persed, the average being very high. One pony persed, the average being very high. One pony,
only $13.1 \mathrm{~h} . \mathrm{h}$. made the extraordinary figure of $1,150 \mathrm{gs}$., or fully $\$ 6,000.00$. It is not likely that we shall ever again see an artist in pony management to equal Mr. Foster, and "Mel culture in Great Britain.
in the way of improvement in the outlook for that class of stock, At the Londesborough sale
in Yorkshire, 38 head made an average of $£ 53$ in Yorkshire, 38 head made an average of 8 s 3 d , and at Fallside, Bathgate, in Scotland 45 8 s 3 d , and at Fallside, Bathgate, in Scotland 45
head including a number of ponies, made £47 4 s . head including a number of ponies, sd. Of cuthe these nothing for losses and depreciation. One rather turns from that dilettante department of stock breeding to the utili-
tarian, and in the more homely Ayrshire, and Clydesdale find a return in ways and means which leaves a profit to everybody.
We have had some very fine exhibitions of these classes of stock this spring. At Kilmarmock, Ayr, Glassow, Dunbarton, Rothesay, Pais-
ley and Hamilton, all in the Clyde valley, the exhibits of both cattle and draft horses have been unusually high-class. A very successiul breeder of Ayrshires has been Mrs. McAlister,
Meikle Kilmory, Rothesay. She has won the Ayr Meikle Kor three-year-old queys two years in succession, and this year she not only won the Derby, but she also exhibited another quey of the same
age of her own breeding which beat her Derby' age of her own breeding which beat her Derby
winner. She thus had two queys at the top in the three-year-old class, a very fine feat to be performed by one herd, and that not at all a big one. Another herd which sent out excellent Ayrshires, was, that of T. C. Lindsay, Aithenbrae specimens with great bodies showing constitution, and first-rate teats. The championship at Ayr, however, went to nel Newton Strathaven has long been in the fore-front with the showyard type and now he is combining both the showyard and the milk-record type with success. Ayrshires are now a much more useful and utili-
tarian breed than they used to be. The Milk Record classes at Ayr contained splendid dairy cattle, and we are prepared to supply the world with the best in that line. As a general-purpose dairy cow the Ayrshire holds the record. The
Jersey can beat her for butter, and the Holstein can beat her for milk yield alone, but for the combined dairy requirements of milk, cheese and
butter, on economical feeding, the Ayrshire stands butter, on economical feeding, the Ayrshire stands unrivalled. What she lacked was the Milk
Records and these she has now got on a sound and trustworthy basis.
As for our Clydesdale exhibits the winning
sires this year are Baron of Buchlyvie and his sires this year are Baron of Buchlyvie and his son Dunure Footprint, and Apukwa. The Dunure
Main's stud has been greatly in evidence with some truly magnificent animals, especially mares. At Ayr, Mr. Dunlop showed three brood mares which led their class, all in foal to the fine young horse, Dunure Stephen
Chosen, which has never been beaten, Dunure Toby, and the fine old mare Sarcelle. A full brother of Dunure Footprint and Dunure Chosen, which unfortunately died last year, viz., Dunure
Index was breeding extra weli. Index was breeding extra well. There was a
splendid show of yearling fillies after him at Hamilton, on Wednesday, 3rd inst. Happily' there is another crop of foals from him this year, and if they prove to be at all like the crop of
1913 , the Hamilton tenantry who hired the horse will have reason to congratulate themselves There has been a good deal of in-and-out judging among the Clydesdales this year, but that is nothing new. Wnfortunately there is very little export trade, and after the stirring times of the past four years the quietness is depressing.
us hope the tide may turn.
SCOTLAND YET.

The Sile vs. Shock Corn.
whether it is more profitable to ensile corn feed it from the shock. Circumstances, however, arise which point very strongly to an
abandonment of the old-time way of feeding. In former years a larger and older kind of stock
was used for feeder cattle, and it was not a general practice to raise store cattle e to butcher
stock without graining; neither is it customary stock without graining; neither is it customary
to-day, but the experience of a Middllesex Count
feeder with his youncr stock to-day, but the experience of a Middlesex Count
feeder with his young stock and silage demon
strates the possibilitics of a more conomical strates the possibilities of a more coonomice
way of producing beef.
 Bruce, and cattle were selling fairly chearly
Several feeders in more favored parts of the Pr, vince took advantage of this circumstance, and
Edgar Bogue, of Middlesex County, was one who secured a carload of heifers from that locality
They were quite thin, and did not show the breedy and well-doing qualities, which
possessed. After being on
the fall they were put into the
his home-grown stock. Fight
that time averaged 800 poun
then about two years of age.
the stable they received hay
the stable they received hay, silagh
pure-bred heifer aised on the farm ' never saw
grain in her life, and, although she is not exgrain in her life, and, although she is not ex
ceedingly large, yet she is in the very best grow-
ing ing condition one could desire to see. The herd
was not turned out very early, but when they was not turned out very early, but when they
finally left the stalls to go onto grass they were in the pink of condition. Mr. Bogue does no winter than formerly, but never, he says, did the
stock go onto grass in any better condition to stock go onto grass in any better condition to
thrive and lay on flesh. The cattle kave no been on grass over a month, but they have re been on grass over a month, but they have re
ceived some grain since going out, and a short


A Silage-fed Individual
time ago the eight heifers would, in our estimation, tip the scales somewhere between 1,050 and
$\mathbf{1 , 0 7 5}$. The single individual illustrated in these columns is one of the good ones of the no mean lot. After graining through the winter and even on grass many feeders consider 300 pounds of gain
up to the tenth or fifteenth of Juiy as satisfac tory, but these heifers will do almost as wel with the cost of the winter grain eliminated
The silage must be credited with the greater part The silage must be credited with the greater part
of this thrift in the stock, and feeders do not yet altogether appreciate the value of silage and roots. Mr. Bogue, however, realizes the boon praises. When men who have fed corn under all conditions come out strongly in favor of ensiling the crop they weaken the arguments of those who still adhere to the shock or dry-corn method
of feeding. If thickly-sown corn will store up of feeding. If thickly-sown corn will store up
the same amount of food constituents in stalk and leaf as the fully-cobbed corn conveys, it will have a much higher percentage of digestible
nutrients, and when ensiled will produce a fodder


Some Beef that Edgar Bogue Made with Silage.

## and and make a still better fodder, but with the be enough gas absorbed by the meat to present system few can depreciate the value of give it a bad flavor, besides the meat will be-

 present system few can depreciate the value of give it a bad flavor, besides the meat whll berthe silo where milk or beef is desired. The up- come sour very soon. In butchering any kind
Tisine rising against it has been gradually yet effectual-

Próviding Fresh Meat in Hot Weather.

## Editor "'The Farmer's Advocate

There are comparatively few farmersin Vide themsel ves and their families with grooTresh. tender meat during hot weather. In soome
localities the meat wagon visits the vicinity about once a week, and the district that gets
goon. fresh meat irom these wagons is very fortumat. As a rule the meat supplied is tough,
strong. and whelatalle. Farmers ourht to either refuse to buy such meat or demand that ers to kill their own meat. Some country busimess to have a meat wagon that will dis-
viluate such meat :is they cannot sell in town. In my locality we have a meat clut,", that
and thus keep ourselves supplied with the best present the club is composed of twenty-eight members. Of course, turns are taken in supply-
ing the meat, and, as each member knows when ing the meat, and, as each member knows when
his time is to come for furnishing an animal, he can have it in good condition for slaughtering. When an animal is dressed the meat is weighed, and a record kept of the number of
pounds. Each member's shave also weighed, and a record kept of the weight of each share. At the end of the season the shares of each member are added up and compared with the
meat he has furnished, and it is easy to tell meat he has furnished, and it is easy to tell
whether he owes the club or whether the club owes him. There are usually some small differences, ibut they are easily and amicably settled. Our "slaughter house" is simply a large shed,
at one end of which is $/ \mathrm{a}$ sort of meat shop, a at one end of which is|a sort of meat shop, a
large hench, knives, etc., being kept there for cutting up and distributing the meat. The slaughtering is done on a certain date, so each
member knows when to come for his share. This plan works nicely, and besides each member getting perfectly fresh meat of good quality, it creates a considerable saving in the meat bill.
Farmers in every community would do well to Farmers in every come puch co-operative plans.
adopt such so-operhing may be said with regard
Perhaps somethe to slaughtering that will not be amiss. The most
important factor for the keeping quality of the important factor for the keeping quality of the
meat is proper bleeding at time of killing. meat is proper
Otherwise the blood in the verns will start put-
refaction at once, and the meat wiil not keep fresk. In butchering a hog ous method of sticking is as follows: First, the hog is pulled up
by one hind leg high enough so that the amimal
is off the ground. It is then stuck straight in is off the ground. It is then stuck straight in
under the breast bone, the sharp side of the knife under the breast bone, the sharp side of the knife
being toward the head. As the knife enters the throat the blade is turned toward the heart and pushed in, cutting toward the heart, opening a slit about four inches long, and deep to the
windpipe. A hog killed in this manner will struggle until the heart ceases action, and it is this very struggling that forces out the blood. I think this method of In sticking a beef the throat is cut
the breast bone, then the knife is turned toward the head, and a cut is made directly from the
breast bone to the windpipe and toward the breast bone to the windpipe and toward the shoot the animal, for this will stop the heart action before the blood is pumped from all parts
of the body, and consequently the meat will not
keep. The method followed by our club in killing a sheep is to lay the animal on its back in ${ }^{2}$
V -shaped trough, which is $V$-shaped trough, which is made for the purpose,
its head extending over the end and immediately its head extending over the end and immediately
break its neck. A slow butcher or an amateur come sour very soon. In hutchering any kind
of an anmal in warm weather as little water
should heused hould be used as possible
Meat consumed while fresh is more palatable and nutritious than is salted meat. It is, as is
well known, very difficult to keep meat fresh without the use of ice for a period of more than five or six days in warm weather. Where a
family refrigerator can be kept at a temperature family refrigerator can be kept at a temperature
of 40 degrees or less and be kept dry, meat may he kept fresh for two weeks. Moisture in a re-
frimerator is very detrimental. and for that reafricerator is very detrimental, and for that reason it should be well ventilated. A dish of
calcium chloride will absorb the moisture of the air in the refrigerator.
A rood plan for keeping meat fresh, where Nin has an ice-house, is to partition off a por-
tion of the house. keeping the meat in this partition. and when a fresh piece is wanted it can
be had. Care must be taken not to let the doors remain open, and if a light is taken in
should not be kent burning any Ionger than possible. Too much care cannot be exercised in
seeping the refrigerator d:y. It will be found
that
temperature is around
where the temperature is 40 degrees and damp. Where the temperature is 40 degrees and damp.
Johnson Co.. Ill.
W. H. UNDERWOOD. [Note.-This club plan is something after the
beef-ring plan so common in some districts of Ontario. . It would, however, provide a change
of meats that is welcome during hot weather of meats that is welcome during hot weather.
We all agree that farmers should co-operate to We all agree that farmers shou
supply surnmer meat.-Editor.]

## THE FARM.

Farm Engineering.
concrete bullding blocks.
Concrete block walls have the advantage of cheapness and ease of construction by unskilled
hands over walls formed in thace
 what in the same way as brick, being larger than brick and cheaper. In fact, concrete block construction, all things considered, is cheaper than any other form of building with the possible exception of wood in those parts of the coun-
try where lumber is comparatively cheap. In adtry where lumber is comparatively cheap. dition, block construction is practically fireproof and is extremely durable. numerous numerous advantages over any other obtained at near the same cost. The walls are as strong as
brick. The blocks, being hollow, do not al'ow moisture to penetrate readily when they are carefuily laid, and, therefore, permit of plastering directly on the wall, if desired, particularly after a precautionary waterproof coating. The
air retained in the spaces within the blocks aids in insulating the interior of the building, making it cooler in summer and more easily heated
during the cold weather. In most cases pipes, wires and other conduits may be laid in the hol-
lows of the building blocks, a thing desirable lows of the building blocks, a thing desirable
many times, althougb extremely undesirable many times, althougb extremely undesirable
where frequent repairs or changes are contemplated.
The individual blocks are of various and wideshape of hollow brick, although that shape is possibly the most common in farm construction.
The essential things are that the blocks shall be easily molded, economical in material, easily inbe somewhat varied to meet changing which may and of pleasing appearance.
There are two main types of block construc tion, the wet and the dry. The difference is
merely in the consistency of the concrete when molded. In the wet construction considerable water is used, and the blocks have try or asemi-
their molds until dry. In the dry or wet'" type, just enough water is added to make
the mixture damp, and the block readily retains its form after the mold is removed. The wet process blocks are far superior, out the dry
process is universally used because of the lower investment in molds required, and the more rapid
production of blocks. Practically all, if not all. production of blocks. Practically ald, if nt all,
of the concrete block machines produce the dry process blocks.
The "cast stone processs" is really a wet block
construction, the molds being made in sand. The sand absorbs the surplus water from the wet mixture, and somewhat accelerates the drying process. Its disadvantage is that a new mold
must be formed for each block, thus making slow must be formed for each block, thus making slow
and expensive production. Ornamental blocks are expensive production in this way.
arequently turned out ing
The making of dry blocks in the block maThe making of dry blocks in the block ma-
chine or without a machine, is ex-
tremeiy simple a tremeiy simple, a 3 , or 4-inch ayer well
the mixture being placed in the moid and well
tamped with quick sharp blows until the surface tamped with quick, sharp blows until the surface
is slightly puddled. Another layer is then placed, and the operation repeated untin large contractors. the molds a.e filled and then pressed or
tamped hydraulically and released almost at In the wet process the mold is poured fuli of
the wet mixture, slightly tamped, and then set aside to dry or "cure." This curing process is
amportant with all types of blocks. It should lmportant with all types of blocks. If if pos-
continue for at least a month and longer if
sile sible before the hlocks are ased, berause the
longer the block is cured the harder it will be be The main cost of blocks is. of course, the cost
of the material. It is cheaper than solid con-
and of the material. It is cheaper less material is
crute. because, heing hollow, les
usmel. The usual mixture is 1 part cement to 4 usen. The usual mixture is 1 part cement to 4
parts of sand and gravel. although a 1 to 5 pro-
portion is common. With a 104 mixture a harril of cement will give 14.5 cubic feet of
solif concrete. The openings in the block may
ho tom 30 to 50 per cent. of the total volume so that a barrel of cement will give practically
$2!$ cutic feet of hlocks with 50 per cent. open-
ine and 20.7 cubic feet with 30 per cent. open-
inc
sized blocks is given below, using $\$ 2.50$ as the ercised in cropping has been good. The discovery
price of cement per barrel.
of the place of clover as a crop and soil renova-

| b] | Price each. |
| :---: | :---: |
| 32 (1-3 opening) | .17 cents. |
| $8 \times 9 \times 32$ ( $\frac{1}{2}$ opening) | 1212 ${ }^{\frac{1}{2}}$ cents. |
| $12 \times 9 \times 32$ (1-3 openin | 25 |
| $12 \times 9 \times 32$ ( $\frac{1}{2}$ openin |  |

An Up-to-Date Watering Trough. The accompanying illustratio ank and watering trough built on represents a all and put to use this spring and it works so
MAIN TANK

Ground Plan of Watering Trough.
satisfactorily that I thought some of the readers of the "Advocate" might gather some suggestions
from it. The storage tank is 6 feet by 11 feet inside and 5 feet high. The floor is 6 inches
higher than the valve tank and trough. The


End View of Watering Trough.
valve tank is 3 by 2 feet and the trough is 14 by
$2 \frac{1}{3}$ feet high. It is eighteen inches wide at the bottom with a flare of about 6 inchas. These dimensions could be modified to suit any circumstances.
Huron C $\qquad$ A. C. DAMES.

## Green Manuring.

Editor "The Farmer's Advocate"
So far Canadians have not suffered to any con siderable extent from what reduced many part, soil depletion. Thanks to the class of settlers who occupied our farms from the early days, the soil has for the most part been well nourished Mixed farming has done its share in the way of returning to the soil from it. The standard of
tor has been of incalculable value. Added to this is the fact that the growing cities have demanded
enormous quantities of milk. In this enormous quantities of milk. In this way the place in soil maintenance. to have an impurtant cattle and hog feeding as soil nourishers requires no argument.
But has not the time come when the question of green manuring should be squarely faced? No advantage in soil building in the past should be abandoned, but has not the day arrived when the
old standbys should be supplemented by green old standbys should be supplemented by green
manuring? The best of soil is none too manuring? The best of soil is none too good. A the largest possible returns from every foot of the farmer's arable land. Labor is scarce and mensely during the past few years. The farmer's whole plant is costly. He has but one yearly return as a rule from his field. Unless that one eturn is of the largest, possible kind he finds it hard to make any progress.
He importance of
the farm as fertile as possible. Take the corn
field for an example field for an example. Corn is a gross feeder, and unless the soil is carefully nourished the land it
bound to suffer. Yet suich land has been made to increase in fertility by green-manuring alone. Th practice has been to sow rye and hairy vetch Thong the corn láte in August or in September growth is not sufficient to interfere with the corn harvesting. The covering of rye and vetch insures the extermination of any weeds that may
have escaped the last cultivation. By May of the have escraped the last cultivation. By May of the
following Spring this green crop will be in ideal condition for plowing under. The rank growth of the rye will add an immense amount of humus great deal of humus as well as nitroge The same holds for the care of the field that has been sown to a cereal. As soon as the cereal
has been harvested it is good practice to plow it has been harvested it is good practice to plow it
with a broad-share plow and to sow to rye and hairy vetch. By' spring this crop will be ready for pasture, By May it will be an ideal field for
humus-making. humus-making.
Those who are afraid to experiment with vetch
will make no mistake in sowing their newly will make no mistake in sowing their newly-
plowed fields to rape. This crop sprouts readily, matures rapidly and is ready for pasturage the fall it is sown. A flock of sheep will do well on cattle will come into the stable from such a field in splendid condition for putting on flesh.
In making a beginning in, green manuring it is
best to make the change gradually. Do not best to make the change gradually. Do not
trust wholly to the vetch, but use a small quantity with other seed. In this way the soil be-
comes inoculated with the vetch nodule-forming bacteria and when the inoculation once tate place there is no doubt but that the sowing of ield vetch with very considerable liberality will York Co., Ont.

## Why Is a District Representative?

Editor "The Farmer's Advocate":
The work of the four-score Doctors of Agricul The work of the four-score Doctors of Agricul
ture, as Dr. G. C. Creelman, President of the Oncario Agricultural College, almost invariably Department of Agriculture and their assistants,
is very much in the limelight of late. Truly these men are doing a great work for themselves and for the country. It was the chance
velop his knowledge of scientific agriculture and velop his knowledge of scientife agich come in contact, up to a better appreciation of their calling, and incidentary certain young man, fresk from his third year at the agricultural college, which
he entered after several years on an Ontario he entered after several years orecarious, often thankless, (as farming comity are concerned) and always farming cond and unremunerative position of assistant to one of the best riepresentatives the ever tion of assistant, as this young man experienced work that ever came across his trail. The Rep-
resentative lawored even more strenuously, and there was always more to do. Reprresentative man to take it up term it, a great experience, ahout variety; of it there is no end, and a con-
tinuous perormance of a sixten-act vaudeville ands clowns and thrillers could not offer more
less
lauchs, sometimes at one's own foolishness, sometimes at that of those whom circumstances
all funny, the serious side of the "JOB" as the
bys call it is work in all forms from dissecting tubercular chickens and naming the white spoti
on their livers to working the handle of a spray on their livers to working the handie of a spray
pump, and all the while explaining to the queetioners roundabout why leaves curl up on certain
trees, why cows chew bones, why the goose, trees, why cows chew bones, why the goose,
which in reality was a gander, did not lay laat
spring, why the fertile eggs in the incubator did not hatch, why the calves. were spotted whe
not het whe whe they, should have been a solid color, and why the
colt's legs were not straighter when foaled. non-partisan government official is looked upon in rather a peculiar light by most farmers who
connect party with all things governmental, and connect party with all things governmental, and
expect an official to know a great deal more than he very often does.
However, it is to relate some experiencee
that "Bill,", as he has decided to call himself if that "Bill,", as he has decided to call himsell, il
writing now. There is a vast difference in taking in agricultural information by osmosis, that slow process by which the intensely practical in replaced in part by the intensely seientific and
theoretical until the cells composing the all too theoretical until the cells composing the all too
small brain of the student istome distended, and
his head is just about as big as that of a horse his head is just about as big as that of a horse
suffering from osteo porosis, and allowing all suffering from ostco porosis, and in awong five minutes in such a stream of intelligent conversa-
tion that the farmer understands every word and can put the advice to practical use. Generally
the information pours out all right, but ofter by the wide gulf of lapse of memory, or, per
chance, in a string of scientific names which chance, in a string of scientific names which and usually when this is the case mos estimatio and usually when this is the case
of the educated agriculturist falls lower than his

## THE FARMER'S ADVOCATE.

mandibiles, and as soon as the silly scientist has
disappeared a hearty ha ! ha! is indulged in by the practical man at the expense of the lad trained at the agricultural college
trained what do you fellows do in that office
over there in the town, all dressed up in your over there in the town, all dressed up in your
laundered shirts and good clothes ? Who pays laundered shirts and goode are burdened enough you anyway? The people are burdened enough
already without paying the salaries and expenses
of a lot more worthless and lazy young stripof a lot more worthless and lazy young striplings going about the country endeavoring to
teach farmers how to farm. It is just a farce. teach farmers how to farm. It is just a farce. ing crops and feeding stock. No, I refuse to
awap."
nap. Uust a salute from the wife of a farmer whom
the assistant was sent out by the Representative the assistant was sent out by the Representative
to help. The good woman was as good as he: to help. The good woman was as good as
word and did not disturb the man, of the house from his peaceful slumber, evidently about the from his peaceful slumber, evis earth, but after a
only peace he gets on this
little suave persuasion, some small talk, a little little suave persuasion, some small talk, a ittle
blarney and unmerited praise, and after assuring blarney and unmerited praise, and after assur his
the good woman that what she paid towards his
salary and that of the hepresentative would not salary and that of the hepresentative would not buy her a one-cent stamp ber manner changed alightly, and the desired information was given
and the lad departed for the next farm. It is and that how people think they are going to be robbed by every stranger who enters their gate,
but no one can blame them. To-day this wobut no one can blame them. To-day this womork of the Representative. You cannot always
work tell by the looks of a frog how far he can leap,
but you can always bank on it that when a farmer's wife jumps at you that she goes as far as she can in the first breath and lands with all her. weight the first time, and if you survive, the
rebound is likely to he so great a shock that berebound is likely to be so great a shock that be
fore long her attitude will have entirely changed. It pays to get on the right side of the women worth a hundred indifferent men or women, and once she sees the value of the work she is just as loud in her praise as she was in her dispar agement. "Good afternoon madam," is Mr .

## home.'

CCould I talk with him a few minutes about his orchard ?" "No you can't. We don't want any mor apple trees, and besides he's asleep, and I woul might as well go and don't forget to shut the cate after you." Glancing toward a ten-acre orchard neglecte
from every standpoint Bill decided that the from every standpoint Bill decided that the wo
man was right. It would not be worth while man was right. It would nother which might have been yielding him easily $\$ 1,000$ yearly, bu who preferred to let blight and brush, insect and
disease place it in the entirely unproductive clas disease place it in the entirely unproductive class
while he slumbered valuable time away on the dining-room sofa.
said Bill, "let him sleep onder any consideration, said bill, let him sleep on, an orchard woul She looked, as if she would have liked to have
hissed "scat" as Bill backed his rather thin hissed "scat" as Bill backed his rather thin
livery horse around and made for the , gate which livery horse around and made for the , At. A livery
ke was not to leave open and he didn't.
horse may be slower but takes better with the be was not to leave open and ace better with the
horse may be slower but take
people, and is not so hard on the traveller as the people, and is not so hard on the traveller as the
bumpety bump motor cycle now supplied to many of the offices.
It is great fun to drive two horses on
bugry especially when one pulls incessantly buggy, especially when one pulls incessantly on
the bit while the other tries to get in the buggy to ride, two typical livery horses. Such a team had Bill and the Representative on one occasion
to drive over twenty miles on a hott day and
through sand through sand. One horse lugged and the othe
lagged, yet the destination was seached, an lagged, yet the destination was eached, and
after holding a very successful drainage demon-
stration where the advantages of underdrainage stration where the advantages of underdrainage were reiterated and the methods of laying out a
survey explained and demonstrated, showing how to determine fall and lay the tile to grade, a
further drive of eight miles lay ahead with a further drive of eight miles lay ahead with a
big surveying job, waiting for Bint. It was a
job big surveying , We arrived for dinner. Th
great place. Wher Wher
daughter of the house, about seventeen years age, barefooted and deridedly untidy, was hustlit off upstairs on our arrival and she reappeared a
the dinner table dressed, not in the latest fron Paris, but in the latest from somewhere. It was
decidedly late anyway, but this did not watter She seemed so prim in contrast with the dinner
and much cleaner than the house and the woma and much cleaner than he hill was single but no particular hit
thereof.
was made, and after one meal he decided to do was made, and after one meal he decided to do search ar o'clock, upon the arrival of his chich
ly at six oll
from a trip farther north, they pulled up strin from a trip arther north, they puther a started a sile drive for the wit
and site
Oh what a difference! The binder hafl down, and in repairing it supper had bom layed so we were just in time. heir wis show was extended, and after watching
milk a few cows and the boys feed as
bunch of pigs as it has even been our privilege
to see, we sat down to a meal from which we to see, we sat down to a meal from which we
could scarcely rise, naving partaken time apd again of ham and eggs, kot cakes, home-made bread, home-canned fruit and deep apple pie
with sundry side dishes and all delicious. These with sundry side dishes and all delicious. These
people were glad to see us, and we were more than pleased to see them, and it made our eyes
fairly water to watch our formerly receding shirt fairly water to watch our formerly receding shirt
fronts fill out once more as we filled the receiving stations which we carried under them with the best of life's necessaries. We did this surveying job; answered numberless questions; our work was appreciated and we learned something We got a wholesome meal which our stomachs could digest, but at the next place we were ex-
pected, and what a feast was there ! The neigh bor giris were in to entertain and be entertained and all the best cook books had been exhausted in an effort to feed these poor bachelor boys enough. We were exhausted, or at least ad
available space was, before we had nearly finished the spread. The kindness of these people was immense. Not only did they feed us but they played and sang to us and asked us so many and surely for a while the job was a very pleasant one. When everyone is agreeable no one knows how much good may be done. where we finished at noon proffered a drink of good old hard cider in a mug more like a halfallon jug. Innocently thinking it to son stomach without stopping to taste it, and the Irishman's neighbor never had such a half-day's
surveying done before or since. Bill handled the surveying done before or since. Bill handled the noon, nevertheless the underdrains were put in and the fields dried, so it takes more than cider to upset a student of experience, even though the crooked rail fence. Funny thing how hard cider hastened that farm to a drier state.


Auchenbrain Hattie 6th Imp.

Champion Ayrshire cow at the Ormstown Show. Exhibited by McMillan \& Leggit

## These expert agriculturists are the "big'" men in the towns in which they live. They are invited to attend all the social functions such as Church Dinners and Literary Society Entertainments, and are supposed to be able to talk on babies up to the possibilities of church union. It must be great fun also for Representatives who golf and croquet, for their evenings are greatly Cahen up, and the fair ones seem to be incessant- ly calling "thirty love" until the poor boy more accustomed to handling a hoe or a fork than a tennis racket believes that, there are about thirty of them drawing in around him, and bats the ball over the back fence to end the confusion and escapes to that wonderful pastime golf where he Lroat time. Croquet is all right, but the best The work looks vastly different from the in sillu lowing out than from the outside looking sirl. lowhing out than from the outside looking in. As a nsual thing those who work as assist- arits thace little money when they start, and sometimes less yet when they quit or get moved upe to the leprosemative position in another cumnte countr. Fven the it is no get-rich-quick "job" as sinm none too sumpathetic farmers seem to anime. The lad usuly leaves college "broke"  of eradication explained sight, and methods notice. The Repexpentative must know how to and by demonstration must show that he can. He must be an expert on soils and crops; must know the right rotation for each farm ; must be able to repair spraying outfits and farm machinery and plan stahles and house construction, lay out fields and advise on farm power of and kinds; must be able to teach young boys and older practical, experienced farmers; must know how to feed all kinds of animais on all kinds of feed and get results. He must know six chemistries, all the botany of the farm, geology, chemistries, all the botany of the farm, geology, entomology, bacteriology, agronomony, animal husbandry, dairy husbandry, physics arithmetic, husbandry, dairy husbandry, physics, arithmetic, poultry husbandry, mechanics, English literature, veterinary science and all of these in their many branches, together with anything else which may happen to come up, and with all this he must be on the "job" all the time and must get permission to do many things where his own judgmission he considers is just as valuable as that of ment he considers is just as valuable as that of those who do not understand conditions in his County as well as he does himself. He must not wander far from home. The county map in his office shows him the boundaries of his county, and if he is caught outside without permission something may happen. Bill did not fit in entirely. He had some sharp edges in his square form which could not must bury himself, so he decided not to offer his services for the work any ionger, (maybe they would not have been accepted anyway) so he st be recognized

will likely be the middle of next month before his
check arrives, and lives and hopes, all the time footing travelling expense bills. Then he finds out that the appropriation is exhausted, and he
must exist for possibly three months and pay must exist for possibly three months and pay is at the Department's disposal. This is always very discouraging to Representative and assistant alike, and they hope on that salaries and
expense money may come more promptly. expense money may come more promptly. They
know that "pay day"' comes like clock work in private enterprise, and cannot understand why it
should be delayed. If either were working should be delayed. If either were working for
anyone else but His Majesty's Government anyould demand an explanation, and would insist upon prompt payment for services rendered. His
intense loyalty is all that saves trouble, and beintense loyalty is all that saves trouble, and be-
sides there is the eternal dunning coming from business people who have accounts against the oufice and who have to wait weeks and months
for payment. This becomes anoying for payment. This becomes annoying. A new man is green on sending in accounts, or two less than forty-cent purchases for office needs, and for this reason payment was further
belated. It is not conducive to extreme happiness to have a land-lady worrying about board bills unpaid and perchance threatening to seize
your old trunk and battered suit-case with your old trunk and battered suit-case with what few clothes you can scrape up, when you only
have a stub of a lead pencil left from examination time, and the first Yankee cent your father gave you in long-delayed pay day. Youre wish for that long-delayed pay day. You often wish you
were somewhat more agricultural than a RepreWhat does District Representative work consist of ? Just everything. You test milk and
cream until the cows turn pale in the face at sight of you, start to tremble and leak rich strippings because they wish to demonstrate fully
that they are not the *boarder," cows which by test, would send to the butcher's block. Some buyers of milk and cream by test get almost as dairyman for miles around gets the office to keep tab on their tests, for farmers fear ractorymen, and the
Representative must be careful that he gets
fair samples else there will surely
be trouble. The land be trouble. The land
is surveyed for miles is surveyed for miles
of underdrains, many of which are put in
and the land brought up t o a profitable
basis, but field after field is gone over and extensive plans made
which almost stagger which almost stagger
the own er, and in some cases he decides
to puddle away rather to puddle away rather
than pay out goood
money to get tiles money to get property. The Representative
shows him where and shows him where a nd
how to drain; if he decides no t to do it that does not lighten the work of the Repre-
sentative. Bad weeds
drifted into another and and moor many other things Act, which comes into force on January 1st,
definite and more of a good mives the following weights for the which draw away from District Representative vegetables and commodities whights for the following County work is a great work. Why is a Dis- A bushel of any of these articles, unless a
trict Representative? Because the county needs bushel by measure is specially agreed upon shall trict Represen. District Representatives have done be the following :an organizer. District Representatives have done me dore ing more effective organization work Artichokes, 56 lbs.; beans, 60 lbs .; beets, 50
and are
 Weights of Vegetables and Other loms lis.; malt, 36 lbs.; hemp seed, 44 lbs.; iime, 70 Articles.
Considerable comment has been made of latichokes, 84 lbs. about the selling of potatoes and such vegetables nips, 65 lbs ., and potatoes, 90 lbs . 75 lbs .; parsby the bushel or bag there being a difference of Persons selling or offering for sale these opinion as to what constitutes these measurements. articles not up to required weight will be liable A recent amendment to the Inspection and Sales to a fine of $\$ 25$ on the first offence, and not ex-

The same Act defines a barrel of flour as 196 meal and a half barrel as 98 lbs., and a half a barrel of meal 196 lbs. and a half barrel, 98 lbs.; rolled
oats must weigh 180 lbs . to the barrel and 90 lbs. to the half barrel, and rolled wheat, 100 lbs . los. to the half barrel, and rolled wheat, 100 lb
to the barrel, and 50 lbs . to the half barrel.

## THE DAIRY.

Prof. G. L. McKay, formerly of Oxford.County has heen given honorary degree of Doctor of was formerly at the head of the Dairy Department of that institution and is now Secretary of Manufacturers, whose members Creamery Butter one-third of the butter produced in the United
States..


Home.
Four of a Kind.

## The residence of Fred Goble one offord County's Dairymen

## Phases of Dairying in Oxford County, Ontario.

These three questions might arise in one's produces milk. Built inside the barn is a rec-
mind when travelling through Oxford County, mind when travelling through Oxford County,
Ontario: are the farmers generally dairymen beOntario: are the farmers generally dairymen be
cause land is valued high; is land high in value because of dairying; or is dairying almost universal because it is a profitable enterprise?
Purchasers of dairy products, consumers particuPurchasers of dairy products, consumers particu-
larly, would answer the last question in the larly, would answer the last question in the some who have studied minutely assure us that it is no get-rich-quick enterprise and that a probusiness is more remunerativ It is an intricate problem but one thing is kept, that up-to-date methods and practices must be put into vogue, and the market must
be sought, cared for and satisfied else the path of the dairyman may be strewn with thorns. The
of man who ploddingly keeps abreast of the average should make one desperate sprint and get into the van and by this we mean operations such as
are carried on by T. H. Dent on the Springbank Dairy Farm in Oxford County.
There are 350 acres in this farm but that is no larger than many of our Ontario farms. Be cause it is large it is not allowed to lie idie and
produce weeds neither is it almost entirely deproduce weeds neither is it almost entirely de
voted to pasture. Residents of Oxford County cannot afford to farm thus on land worth over one-hundred dollars per acre. It must be farmed
and farmed and farmed properly. kind that consume a lot of feed and give corresponding returns. The cattle are not sustained on a maintenance ration for the bottled-milk trade supplieत by Mr demand; it must be supplied day in and day out, summer and winter. There are some who might rebel at this relentlessness and grind, but a man in the business for profits rejoices in such
an unwavering patronage. The dairy end of Springbank Farm thing is pooled, so to speak, manufactured into milk by fourty-five dairy cows and sold in bottles
sILOS PLAY important part. Dairy cows consume a lot of roughage and
Springbank Farm supplies a quality that
angular silo and on the outside is a concre silt fourty feet by fourteen, their combined capa-
city is about 400 tons. Thirty'five acres of corn usually suffice to fill both but in addition to this eight acres are devoted to turnips and mangels hich provide succuence and milk
they have proven themselves superioncers mangels when being fed to cows in the record of performance test. Here the milk was weighed
and there could be no mistake. Neither is there and there could be no mistake. Neither is there
any complaint from the patrons on account of tainted milk for the roots are fed at noon so they are all cleaned up and the peculiar odor
dissivated before milking time. Mr. Dent cannot dissivated before milking time. Mr. Dent cannot be considered orthodex rerarding the glazed stage is
silo. Heavily cobbed corn in not desired on the Springbank Farm. Even after coming through the silo the kernels pass through
the cows undigested and, so to speak, are lost the cows undigested and, so to speak, are lost.
To avoid this difficully the corn is sown in drills at the rate of two pecks to the acre which precludes the development of large cobs. Immature corn that will sour in the silo is not the outcome
of this practice. The crop appropriates the same food constituents but stores them in a more palatable form in the shape of leaf and stalk. Mr. Dent claims in this connection that it does not pay to grow grain to ensile, giving preefence
decrease in the area devoted to corn and growing oats for instance on that diminished area. This, in his opinion, is preferable to producing a large area of corned. Alfalfa is a favorite, but with cob is desired. Alrala lost none of its prestige for it forms a part of all seeding mixtures. The increased value of the first crop of hay, says Mr.
Dent. more than counter-halances the price of Dent. more than couny
heifers freshen as two-year-olds The stable and farm are in harmony with
each other and a cood crop is not wasted on poor cows. They are raised from the first day with one aim in view and that to produce milk. When two days old the calves are taken from the
dams and fed on whole milk for a month and dams and fed on whole mik the skimmed product which they enjoy till about ten months old. At
first they are given a little scalded oil cake in
their milk but when two months old the millk is supplemented with oat chon, sillage and bran.
With this fodder and intelligent care they are fit to freshen at two years of age and a cow now in the herd from which over 20,000 pounds of milk are expected this lactation period and which
gave 17,000 pounds as a junior three-year-old gave 17,000 pounds as a junior three-year-old
has the record of freshening under twenty-four months of age. Few breeders would recommend under thirty months of age as the proper time,
but there are other individuals in this giving upwards of seventy pounds of milk that gave birth to their first calf before twenty-four months had passed by. It depends on the care
and fodder they receive during those frst two and fodder they receive during those first two
years and apparently the young heifers on Springyears and apparently the y'oung helfers on Spring-,
bank Farm are so reared that they can qualfy at two years old.
The average producer in this herd receives
about 45 pounds of silage and twenty about 45 pounds of silage and twenty pounds of
roots as succulent roughage. For concentrate oat chop, dried brewerg grain. oil cake and braw make up the ration. The cows are first given their silage and grain in the morning which is noon and at night the silage, grain and hay are fed in the same manner as in the morning. This is the practice followed for the average in
dividuals of the herd while those under test re dividuals of the herd while those under test re-
ceive different feed and care. A milking machine is installed and while the cows are eating the silage and grain two men go forward with the milking using three units and completing the operation in about one hour and a quarter.
During this time forty-six cows are millked and the process of cooling commenced. The water for the dairy is pumped by four hydraulic rams from
springs up to a large concrete supply tank springs up to a large concrete supply tank. This
water runs through the cooling tank which also contains ice and quickly cools the milk so a good product may be bottled.

## HOW THE PROFITS COME

Farm a place as you will, manage a stable in market, yet if the cows are not have a good kind the ledger will not show very long figures on the profit side. On this particular farm, the purp give milk. They are being kept for that four cows taken at mid-day is not decentive of
these four individuals are giving 300 pounds of milk per day would not lead were losing money very quiczly, and it is cows of this type that make times prosperous for the dairymen. This farm under discussion is no company-owned scheme financed by capitalists in
a far-away country. Mr. Dent is a farmer, but a far-away country. Mr. Dent is a farmer, but
he has carried on the enterprise according to he has carried on the enterprise according to
business principles and used sound, common sens -two requisites for success in dairy farming

The Bull Does the Chores.
Editor "The Farmer's 'Advocate": Just mention dairy farming and most people
il laconically reply "the chores." If their lips don't move you see the expression in their eyes. This dread of chores is inherent in most of us owing to the fact that our parents allowed
power that existed about the farm to go to power that For thousands-of years the Niagara River flowed over the falls, appreciated only for its grandeur till some utilitarian mind more naa-
terialistic than esthetic conceived the power eich terialistic than esthetic conceived the power ei.ch
moment being dissipated in the fall. Eventually it, pas harnessed and it is now doing the chores on many Ontario farms. Fred Goble of Oxford County could not wait for Hydro so he harnessed ing and evening this animal is led into a tread mill and the brake taken off. A milking machine begins to work, the separator commences to hum, the pulper starts and for half an hour the scene
resembles a modern factory. This unique power is not to be discounted. Usually the eighteen cows are milked in one-half hour and the separ ating is well under way, the roots are pulped fo the day and all the hard work done by the in
dividual that was usually idle and suffiering in consequence. It required a little persuasion instil into the mind of the bull the necessity o continual action for he delighted in seating himself upon the cross-bar, stopping the surveying the scene of his accomplishment.
he would do when the operator was in the dairy room, but upon his return the bull would resume his journey up the grade as though th3re had been no cessation. However a few sharp tacks in
the cross-bar behind dispelled any desire to rest and now he works away patiently until the chores are done.
This power does not compare in scope or ex
ent with Hydro, hut with the stock-rpiser it tent with Hydro, but with the stock-raiser it is not to be neglected. Three units are operated
by' this milking machine which Mr. Goble has in stalled and while a representative of this pape was standing by twenty-four pounds of milk were two units were working at the same time and the milk was being separated in the dairy room. The bull in use is five years old and weighs between eighteen and nineteen hundred pounds. Consider-
ing the work being done and the speed of the ing the work being done and the speed of the
machinery the animal must develop about two machinery the
horse power.

MARKETING IMPORTANT FACTOR There is nothing in the dairy business that
urpasses in importance the marketing of the product. Mr. Goble has a well thought-out scheme. For customers he has a boarding school
and some ice creanı caterers in the town. In the and some ice creanı caterers in the town. In the
winter the school is in full swing and requires a
large amount of milk, but in the summer or vacation time the demand for ice cream grows and channel the diverts his product into that works very adyantageously for the farm. The illustration of Mr. Goble's home in these columns shows that if the chores are sometimes strenuous he has a pleasant abode in which to some profits in dairying after all. A little initiative and ingenuity on the part of most farmers will often reduce the hours and severity of their labors and the mention of this unique power
the farm might act as a suggestion to many.

Ships Whole Milk to Toronto.
As one would expect, all the milk produced in oxford County is not consumed locally, neither county. A. H. Teeple represents a class of dairymen who are contributing to the milk supply of the city of Toronto. He has recently moved onto new farm and has a herd of cows which have been picked up, so to speak. However, he has retained to head this herd his old King Fayne, Segis-bred bull and is building up another herd of milk producers. This milk is shipped every day to Coronto with prices that the summer, autumn and wiler are cal are raised on milk until they a thime they six mone ach silace and have become acquaive of a cor silage just as anxiously as do the older cattle and do not feel that their rations for the day have been complete unless they have been supplied with this material.
Mr. Teeple has not yet installed a milking machine but from his remarks we gather that it will soon become a part of his farm equipment and that the herd will grow as he becomes equipped to milk them. Sixteen cows are now in their lactation period and it is the aim of Mr Teepie to maintain fifty head of stock on this one-hundred-acre farm.
Taken together the milk and butter trade of creameries, factories and cream business, the
consers with the milk and cream that is daily shipped out of thy county, the whole constitutes a wonderful, business
from which the farmers of Oxford County are building up their places and in most cases re ceiving fair remuneration. The homes and farm buildings testify to the prosperity of the county and the fairly high value which is placed upon revenue per acre is larger than in most farming
distric its char. It is true that this land, judging from ditions, which accompany the same, is no better than in many other counties of Ontario, but the general prosperity and the up-growth of the farm enterprise, which contributes we believe to the prosperous out-look in the county and to the progressive and well-to-do character of the
farmers who labor within its

Special Points in Milk Testing


#### Abstract

The Farmer's Advocate


Because of the fact that practically no othe to the dairymen of Canada, the special points w shall deal with in this article will relate to babcock. The lactometer for determining the pecific gravity of milk is used to some extent for
milk, but its practical use is testing milk, but its practical use is rather
limited, and except in the hands of an expert, may easily lead to very erroneous conclusions: We are frequently asked three questions by dairy buymers ?, "What size tester would you advise uying ?" .rWhere can it be obtained ?", For the ordinary farm, we should advise our-bottle tester, with two pipettes, two acid measures, six whole-milk bottles, two cream bot vare is for emergencies, so that if eipette glass measure, or some of the bottles becone broken, which they are very likely to be, testing can be shipped. We frequently have requests to en a testing outfit, or parts of giassware, as parties ay they do not know where to get them. This elumsy with the hands-whose '. person who is humbs," as farmers say, should not attempt to est mik or cream, as they will break more glassware than the owner can afford to pay for.
To successfully change from handling a pitchforl to handling a pipette is too much for the average man. Women are more likely to be expert testers than are men, because more adroit with the
hands. The
out extra glassware, and inciuding sufficient acid o make a number oo tests, is about five dollars, mall machines will give as good results as the arger ones, if run at proper speed, and for the required length of time. The cost for the acid aries a guric acid by the carboy for two cents per pound, but recently the price has been raised to, our cents per pound. A pound of acid will make about fourteen tos about three tests for one cent. The only other
expense in making the test is the labor and hot water. testing outfits can be obtained from any firm selling dairy supplies (By the way dairy supply firms do not seem to advertise thei. goods so freely as they might in farm journals. We get dozens of letters each year ircm farmers wanting to know where they can buy testers.
churns, printers, etc.
These parties $\begin{aligned} & \text { sey }\end{aligned}$ hey do not find these articles advertised in their farm papers.)
STANDARD TEST botTLE NEEDED. A great deal of confusion has arisen among testing It is quite a usual thing to find students using a skim milk or cream bottie for testing whole milk, or the reverse. It is little wonwhen he has so many different kinds of milk-test bottles to deal with. The writer thinks that momeone will evolve a bottle that will test whole and butter and thus do away with all but one of the at least dozen different kinds of bottles now on the market. We have taken the matter
up with a large manufacturing concern, but they


## THE FARMER'S ADVOCATE

do not wish to change from present methods.
The greater the number of kind of bottles need-
ed, the more money for the manufactur ed, the more money for the manufacturer, and the
greater the capital outlay, and repair expense for
the operator.
It would seem as if the first step is to reduce the size of the sampie for a test. There is not.
and never was, any good reason for taking 18 and never was, any good reason for taking 18
grams or mink for or test, as rompared with a
smaller weight, say, 4 or 5 arams smaller weight, say, 4 or, 5 crams We wae at
once met with the argument that the smaller once met with the argument that the smaller
weight is not so likely to be a representative
 or nothing in this. A five c.c. pipette full of
milk is just as bikely to be representative as a
17.6 c.c. measure. In the Hart cascin and in
 with satisfactory, results. .. ore ond are are used
using less milk for a sample would be a a reducusing less milk for a sample would be a reduc
tior in cost tor acid as we find a number oo
farmers doing offcial testine farmers ooing offcial, testitng, who a object to sup
ervisors testing samples in duplicate, because of ervisors testing samples
the extra cost for acid.
Whethe: or not this change will ever be made no one can say. Man is so steeped in the
"Tharditions of the Elders
short of an earthauale con nothing much short of an earthquake can cause him to arise
and shake the graveclothes of superstition which
shacke him THE COMPOSItE SAMPLE
The tendency among cream-collecting c reamand test each and every delivery. Those wh wh
follow this plan have lost faith in the composite sampling method, but as a matter of husiness
they find it better satisfies their patronage to test each delivery and report same to patron,
and if necessary accompany it with cheque or money order for the shipment of cream. This is has sutficient help to do the thesting, and a a book reeper to make out results.
However, for the benefit of those patrons reameries where samples of cream or milk ar
taken from each delivery and the composite tested bi-monthly or monthly, we may say that
this method gives practically the same results in month or season as where each delivery tested. The only danger is in having the
samples so badly moulded that a correct sample cannot be got at the end of the test period. There is need of 2 good preservative for cream
composite samples-one that will not only keep the sample sweet, but one which will prevent
mould spores growing on the cream.
One of the mould spores growing on the cream. shene or the
creamery inspectors advises not haking the sample when adding a fresh charge, and not allowing the cream to touch the side of the com-
posite bottle when adding the sample, in order positevent mould on the composite. Tests made to prevent mat there is probably a a ood deal in
indicate that in the
what he says. It is worth trying by our creamwhat he says. It is worth trying by our cream-
erymen. Two other points should be observed, the com-
posite sample bottle should be kept tightly stoppered, and it should be kept as cold as possibe not stoppered there is evaporation, and the tests will be from one-half to one per cent. too
high, depending upon the amount of evaporation high, depending upon the amount of evaporation
which has taken place. Up to the present ine best perser aixture of three parts bichromate of potash and one part
bichloride of mercury, using about what will lie on a five-cent piece for pint samples in ordinary
weather, and double this amount in hot weather. Formalin and ereoste an good. The former tends to toughen the curdy matter.
making it difficult of solution, and the latter is making it dificult of st also has a very pungent
rather expensive.
odor which might be objectionable in a creamery. reading the tests.
A variety of practices has grown up with rethe temperature as it comes from the centrifuge, whether hand or steam turbine. The correct
phan is to set all samples in hot water at a temperature of 140 degrees F ., and reagd only at
this temperature this tomperature.
Some read to the bottom, some to the middle, some to the to oo the meniscus or curve on the
fat column. In whole milk bottles, read from fat column. In whole milk bottles, read irom
the bottom to the top of the coumm of fat,
tending as if there were no curve or meniscus. rea cream samples all are not agreed. It depends
In
uno the diameter of the bore of the tottle

 bottom or the curver idde of the curve. So far
others read to the middee
as we can see it makes little firference which plan is adoted so lone as all samples are read
in' the same way, although we favor reading an
one about she middle, of the meniscus as a rule, espe
cially with the 9 -rram. 5 per cent., six-rinch
col
 Some use colored oils to remove the meniscus
entirely, when the question arises, what beomes
of the curve? Is it dissolved, filled up, or
what? If the fat curve is merely dissolved, we may as well read to the bottom of the curve and be
done with it, shevins the expense and labor of done with it saving the expense and labor of
adding coloring. If it is filled with some sub-
stance to the stance to the level of the tips of the curve, we
may as well read to the top as in whole milk samples.
There
Ts
There is need for more uniformity of bottle and methods in testing cream, which is aik
ly more difficult than the testing of milk
Finally Finally we would call attention to the fact Chat all Babcock glassware must be stamped
correct by the Testing Branch of the Department of Inland Revenue, Ottawa, before it may be lawfully used for testing. There appears to be con-
siderable glassware in use, not so stamped, and users are liable to a fine for negleciung to, com-
ply with the requirements of the law on this

## HORTICULTURE.

## The Fruit Crop Outlook.

 The fruit crop report recently issued from theCommissioner's Branch at Ottawa confirms reports of former dates. Apples, except in isol-
ated sections are considered a good crop, but there are a few portions of the Annapolis Valley which have been seriously injured. Thp pear crop in Ontario especially will be a. light one
Keiflers are particularly' abundant., but other varieties, especially in Eastern Ontario were bad ly winter-killed and will not be up to the average. Plums, as will be remembered, blossomed
very fully, but the set was not what would have been expected and the crop will be below the average. Japanese varieties particularly have sutered in some sections and in Eastern ontario
winter-kiling yery materially injured the buds of most varieties. In British Columbla coniderably larger than last year is expected,
The Essex Peninsula and a small section of Thembton Cox Peninsula and a small section of the greater portion of the peach belts in ontario will not have many peaches to offer and prices will undoubtedly be high. Tomatoes have been
planted extensively to off-set this loss in the peach crop. The area is above that of any pro creased on her already growing acreagp. Cherrie will be an abundant crop in the Niagara district and from the Southern and Western Counties will vield only a light crop, but the report is extremely good for all other varieties. There is seldom any doubt about the grape crop and this As a Aow the average and prices will run high. owing to winter injury and in some instances the urouth of 1913, the plantations have been so weakened that the plants are not up to the desired
This coupled with a cold, wet spring of 1914, and This coupled with a cold, wet spring of 1114, and blossoms will cause the crop to be below the average. Recent cablegrams from London, Eng.
land, predict only halp a crop of apples and state land, predict only hali a crop of apples and ace
that the present season is regarded as the most that the present season is regarded as the
unfortunate for many years in that country.
Prèpare Raspberries for Next Year There is one operation on the raspberry plantation that shour be carrled nes execution is to memove the old canes. If disease and insects are in the patch at all they will likely be since it ine wood that has borne the crop, and moved at once and burned. Anthracnose is becoming a common enemy and this system of con-
trol is the most practicable yet put into use. As for clipping back the young canes, it is optiomal whether it be done in the ate
spring, and each time has its advocates for reasons based upon local conditions. However, the cleaning up of the old canes is a practice to be carried out an soon as possible alter harvestnge
the crop and this followed by cultivation and the crop and
fertilization will give a healt thy well-nourished fertilization will give a healtuy
plantation for the succeeding year

Trees Have Been Root-Killed.

## Prof. J. W. Crow, of the O.A.C., writes as follows ,We

"We are etting numerous inquiries concerning
trees which leaf out and then die more or less suddenly. These are the customary symptoms of
root kiling, although a great many fruit growers do not seem to be aware of this number of cainter
injury. injury. We have investigated a
and always with the same results
"If any of your correspondents have been los-

## FARM BULLETIN.

## The Trail of The Colonizer

Editor "The Farmer's 'Advocate"': hear my mother tell me how my great grand-
father and his family drove overland in a covered wagon from Bucks County, Pa., to settle in the close col Talbot Colony in Upper Canada after the close of the Revolutionary War. Quakers my
forebears were, and better Iorebears were, and better people were never
driven out of a country than these founders driven out of country than these founders or a
new colony, whose religion forbade them to bear arm, and whose triitt had accumulated weal-
artocked farms that were the envy of their whig stocked farms that were the envy of their whig
neighbors. When peaee came and they found
Wers. neighbors. When peace came and they found
their loss unbearable-their best horses and catto being hamstrung, their stacks and barns burned,
and even their what they could together and started for a
peaceful life and a home under the British which was assured then in the fertile province to the north, They crossed the Niagara Fiver by ery grandfather went out to drive in their sole
my
remaining cow ho found remaining cow ho found her carcess lying on the snarling and feasting on hes remains. Not a very auspicious welcome to a new country. How When 1
When my father took me on his knee and tokd down on the "old Plank Road" that ran from Port Dover to Jarvis, where the trees were so
high and the underbrush so thick that thiey had igh and the underbrush so thick that they had
to carry a lighted candle to show them the way to the nearest neighlor, the while the wind
roared overhead and every now and then a big tree or a branch would come crashing to the ground near them; when their only roans were nightly visitors, while the deer often yarded with the catlle-T userl to tirk of our level, weli-
tilled fields in the pleasant valley, and wish that , too, could pioneer
As I grew older the wish grew stronger, the e, smothered for many sears only to break out arter a very long, severe
winter and a summer that was prety much all ate in the spring. goort thing,', remarared my husband, and 1 agreed
with him, for it meant a great deal of darnin with him, or to meant a great deal of darning I was longing for "'barefoot time." "Guess I'II send for this," he added pasing me the magazine he was reading and pointing tas
an advertisement, the chief feature of which was a big, rat baby sitting on a monster watering matter concerning one particular spot in Texas. We sent. In short order came a book about the Guirs Coast. A huge branch crammed full of big, juicy, yellow oranges adorned the cover; Gulf
Coast oranges they were too (by that same token they were bigger than the oranges I have seen down here, and more plentiful), and then
there was a nice littie bit of poetry, 'Where the Gult biceze blows,
and then something about "the rose," I've for-
gotten just what it was, but it sounded good to ${ }^{\text {me }}$ We fell for the seductive and persuasive liteature the word jugger sent us, and fell hard. My husbing went son hanead hook good on tove beaut. ful slope, pretty bayou, live oak trees festooned
with "grandpa's whiskers", numerous people coming from all quarters of the globe-overy thing lovely.
pioneer So I went along in February, 1913, a pioneer, like great gramdmother seting forth
from the Promised Land. Instead of the covered prairie
travelle schooner of grandmother's thine wo travelled in pullman sleepers, and in place of
having to camp and cook meals we kad $a$ wellhavng
appointed service. There was also the telegraph
Thend to send word to the P:omised Land foik of my arrival, and in place of finding
there was my husband already there waiting to kill the calf for me. That was where I had it easier than great grandmother. But after paying high prices for meals for four at tho railway
restaurants I came to the conclusion that was one place great grandmother had less expense than 1 had experienced for she could have grand-
feals while she cooked them father catch her mer hungry. Another place great thenever they were hear-she could whip her child-
grandmother wa
and ren if they did not behave, or could otherwise correct them without having a cartull of peoplo
making comments on their behavior or hers. All journeys however long have an end. We arrived at our destination, the land of milk and
 mustard, made a brave show in the gardens; the fielts were green, everything was green. The
little village that had been set down in the
 large atin composod. them to describe the process of puttine
 a day and a half.
Cigures concerning cattle, myself with facts and live stock, including ticks and tick fever, and
just when I was wondering where all the fine just when I was wondering where all the fine yourself the head, neck and hump of a buffialo,
the huge horns cut off about a foot each side the huge horns cut off about a foot each side
of his head. The brisket extra heavy and large
and an immense dewlap added and an immense dewlap added to the size of the
aneast. The color was red-biack, like a dark
Jersey. Had he been light in color one could Jersey. Had he been light in color one could
have seen through him he was so thin. This Lave seen through him he was
was the cause of the exclamation
While he plodded along looking furtively to
the right and left in order to dodge a missile or hard word, I was enlightened as to his biography. He was a cross between a Sacred
Brahma and a Jersey. This mixture is immune to the fever tick that has been the bene of Texas
stockmen. Anything that can stand the hard stockmen. Anything that can stand the hard
words said of him, that this bull did, can live anywhere. I have heard some very severe things said about him and by a refined gentleman too.
but that was after he unfastened the back gate but that was after he unfastened the back gate
after dark and ate the top out of a $\$ 5.00$ arbor vitae tree, and did some other stunts in the hotel garden. While in town this bull made the barreis and boxes, cleaning out garbage cans and eating everything a goat would. But though so ugly in appearance he was as mild a mannere Theoretically he and his kind (the Brahm: cattle, and as arearly tick. proof as it is possible to be; pructically they are an- offense to the
artistic eye, and a blot 9 the landscape. They
heve large korns like heve large korns like hat Hereford and they
are cut off ahout a foot each side of the head, a heavy, low-browed, ugly-looking face, thick neck, heavy brisket, large fore quarters, and a back of the shoulders. (N. B. B . This hump is
considered a delicacy, but our butcher nerer any.) The beast is somewhat sway-backed, and possess makes the hind quarters look small in this new beef breed. The co-camelesque front The cows possess good milking qualities, and they Enthusiasts ambe disposition
proof breed. Personally I thinkeloped a tick the land will be the most sertivation of eradicator. Apropos of ticks we noticed a ing manner one dies acting in a drunken staggercovered they were laden down with ticks dis clusive proof that the typhoid fly has anothe black mark on its 'scutcheon.
It was February 23, 1913,
Danbury, "the town that does thin we ", landed in company, literature delighted to put it, and the
things it did were a-plenty things it did were a-plenty. It was soon to necting it with Galveston and an "everything that was going" to believe the company litera ture that continued to pour in upon us. But 1
am digressing? To return to our cattle; I had
expected never did I see up north so many unthrifty scrubs in all my life as I saw drifting over the
prairies exposed to the heavy rains and bitter prairies exposed to the heavy rains and bitter
winds of winter. They were all sorts, kinds,
sizes and colors, brindled, spotted, speckled, and sizes and colors, brindled, spotted, speckled, and
tick-infested. There were numerous long horns the old native breed that is fast disappearing We stopped at the hotel while our house wa's
being built, and found people there from ail quarters of the globe. Alaska, Mexico, Hawaii, Pennsylvania, Wisconsin, Oklahoma and Cali-
fornia were represented. fornia were represented. Everyone was en-
thusiastic, the land appeared to be all right, and mind's eye. The majority of those coming in
had accepted their lands and were breaking up and improving their tracts.
The field manager of the company was ver agreeable, and stood well with the colonists. It
was so busy we could not see much of him fo two or three days, hut one day at non I asked
him when we could be driven over to our tract about five miles distant. "Sometime this evening," he answered. I thought, "Weli this is a preat idea to show
land after dark,", but I soon found out that the
Texas peonole have only two divisions to the day "Morning" until 12 o'clock noon, then "evening"
until morning comes again. The country seemed bayous (pronounced by-oh) as the small rivers
are called. The trees are draped with Spanish are called. The trees are draped with Spanish
moss, and the palms along by the water present quire a tropical appearance. The of the land was promising. Our tract
bordered on the bayou, where the fishing seemed
remarkably good. The boys wbre anxious to
catch string, but dig as they would they
couldn't find a worm. However, after the ground
was broken up and cultivated we began to find small ones; but when first plowed there was nary a wo be bu
horses, acquired house, bought a fine team of high-grade prices and started in to make a crop. Then came on a dry spell, and work we did in had been idle for centuries. On twenty acres we worked, cultivating and disking enough acres we
put 100 acres in condition back north. Melons
and cotton were to be the cro and cotton were to be the crop, with. sorghum
and corn for the team and chickens. And then
when when things were going nicely came the
mosquitoes. The Gulf brand they were, and they mosquitoes. The Gulf brand they were, and they
came by millions on the Gulf Breeze we had heard
so much about. Much has been written mosquitoes, but the Gulf mosquitoes have neve The full justice done them and never will have. about one-third the size of an ordiniary mosquito and with an appetite as big as an elephant. The
first warning you get of his approach is when he first warning you get of his approach is when he
leaves, as he stings first and then buzzes is never satisfied with one bite, but will take three or four and then buzz a farewell. Thre days the mosquito storm lasted, and the timely
appearance of a "norther" as the appearance o norther as they call the coo mosquito back to his lair in the salt marshes
But before leaving this But before leaving this tiny pest let me assure
you that he is the worst ever the hair cloth shirts and lashes of the good old "padres" had nothing on the Gull mosquito. The next time the mosquito plague came it staye with us for more than a month.
of delight to the boys. Every day ar sourc launch or oil scow would go past to the rice farms, and would come so near the bank one
could almost jump aboard. More colonists came in, some bringing a piano and other luxuries and all building on the big crops they were go ing to raise on this fertile soil that had wo engineer from will be my main dependence said an engineer from Sudbury, and while they are grow-
ing into bearing I'll plant cotton and cante loupe." He had a canvas, knock-down house, boy two years old. They also had the same boundless enthusiasm that we had, and we used met coming from town.
We planted our canteloupe and they came up
finely and grew well in spite of the drouth. The corn and garden truck also started well, and so
did the jackdaws, magpies with the and jack. These drawbacks coupled in a land where such and the high cost of living the land company began to worry the colonists and murmurs of dissatisfaction were heard throughout the colony. This was made worse
when the company summarily and without cause when the company summariny and without cause put "The town that does things" was the way the company styled it, and what it did to us !
However, we had planted and worked faith so no fault could be laid at our door, and I must say our crops looked well.
Early one morning in April, looking off over clouds an exact reproduction of the Galveston dauseway. It was the first time I had ever seen a mirage, and breakfast dishes and every-
thing else went unheeded so long as this beauti-
ful luminous picture remained in Soon we could picture remained in the clouds. way, and then slowly the sun showed itself and side to my ideas of a mirage this was not un-
onserver natural phenomenon we
obsed later in the year was the raino observed later in the year was the rainbow at
nimht.
Texas.
HOWARD KENT

## Haying on in Middlesex.



## The Orchard

By Peter McArthur.
finished when the spring work may be considere last pumpkin the pumplkin seeds are planted. Th day afternoon, and I feel that I am field yester stop and look things over for a day or two befor work for at another job. When laying out the orchard planted and there is corn planted bet it is rows and pumpkin seeds planted in the tor There should be a crop of some kind next fall to arrange for a crop of trees, corn a patient field in the same year, but as there was a clover sod ploughed under last fall and a coat of manure put on a large part of it this spring, it ought to times, and in a fiew days we shall be disce eight with the hoes and the cultivator. starting in some of the thistles and weeds, but there is promises a lively tussle in the low spots that disced out of sight several times it is has been to show up fresh ind green among the corn but we are prepared to go at it vigorously for clean at the starf the young orchard good and
young orchard carefully' I find it a go over the year I thought I did quite well to get ninety per cent. of the apple-trees and one half of the cherry trees growing, but of the two hundred and sixty trees that were planted this spring I have not ound one that is not in full growth. They are bursting with vigor. Besides putting out wood and there is putery reason a growth of now of them will live. One little Wealthy, no thicker than my finger was so ambitious that it put out hlossoms and now shows a little apple the record for a young orchard coming into bearing. While on this point it may be a guidance to others who are intending to plant out orchards irom a visiting expert-after it was too late for me to act on it. He said that in securing young
trees from a nursery one should try if possible to get trees that had been grafted from fruit bearing wood. In some nurseries they graft place. The young trees they have growing on the place. The trees grafted with fruit wood will
come into bearing several years earlier than those grafted from nurgery shoots. This is certainly a very important matter, for it takes a long time
to get an orchard into bearing at the best. If I had known about this in time I should have ingrafted young trees, but the young Wealthy that has started bearing on the year of planting leads me to hope that I have the right kind. They are dug this spring instead of being brought out been cold storage, that I hardly think they would be racking on so important a point as proper graft the patient job of bringing them into bearing as

The old orchard shows an excellent set of
fruit though the trees are net as they were a couple of years ago when Mr . centage of the blossoms fertilized. I am a wonder-
ing if heavy rain and wind storm just after they in bloom. It pounded off most of the petals and completing their work. All the trees, except one Baldwin that yielded eleven barrels last yea show what will probably prove to be a sufficien
crop. The Spies are well-loaded and I shat probably have to do some thinning on them. am glad to find that the Peewaukee with th
freak branch that has been yielding dark ples while the rest of the tree yields the ordinary striped fruit, is well loaded this year The experts have promised to make a study of
it this season to discover if possible why that branch should be different. If orchardists could find out how to stimulate the color of apples? they
would make great progress towards develonin the most popular varieties. It is almost as nec essary to please the eye as the palate, but as far
as I am able to learn it is not known how to produce mone color except by pruning the trees
so that the apples will get as much sunshine as possible. I also understand that the apples pro duced in orchards that are allowed to run to so ed by cultivated orchards, but the why and
wherefore of this is not clearly understood. If

JUNE 25, 1914
our freak branch acts as it has on the past coupla
of years they may be able to find some clue to the question of color. There must be some rea son why that branch which seems to be entirely the tree should give apples that the rest o purple. Something is stimulating the color, but
what? It is not another variety that has, what? It is not another variety that has been grafted on the tree for all who have examined
the apples are sure that they are true Peewaukees.

It is also pleasant to find that the apples are as yet entirely free from scab and.I have found only a couple of side-worms. This year we put as strong as we dared and it looks as if we had done right. A crab-apple tree that could not be sprayed because it stands near the house, and the spraying is loaded with fruit that is covened with scab. This shows us what we would have had in the blight. Of course it is too early to be sure that we have escaped entirely, but at this time a year ago our apples were black with scab.

## A Big Crop Acreage

In. a bulletin issued June 12th, by the Census and Statistics Office preliminary estimates are crops in the areas sown to the principal grain dition according to returns made by crop-reporting correspondents on June 1st. The reports show that throughout the Maritime provinces, seeding was delayed through the lateness of the of grain is generally satisfactory, notwithstanding a long spell of dry weather; in many places however the mpadows were beginning to suffer from the effects of drouth. Conditions throughout the West were reported as generally favorable, though rains would be welcome especially in Manitoba and southern Alberta.
The total area under wheat in Canada, is pro-
visionally estimated at $11,203,800$ acres, or 188 , 800 acres more than in 1913. The area under spring wheat is reported as $10,230,500$ acres, or 185,500 acres more than in 1913, and the area expectled to be harvested of fall wheat is 973,300
acres or 3,300 acres more than last year. acres or 3,300 acres more than last year. The
acreage of oats is placed at $10,811,000$ acres as compared with $10,434,000$ acres last year, an increase of 377,000 acres. Barley occupies $1,604,-$ 000 acres, or 9,000 acres less than last year and
rye 111,070 acres as compared with 119,300 acres rye 111,070 acres as compared with 119,300 acres
last year. The estimated area under hay and lover is. $8,206,000$ acres as compared with 8 ,-
clover
169000 acres in 1913 . 169,000 acres in 1913.
In the three Northwest provinces, Manitoba, Saskatchewan and Alberta, the total wheat area
is estimated at $10,247,400$ acres as compared with $10,036,000$ acres in 1913; that of oats at 6,086,000 acres as compared with $5,792,000$ acres
in 1913; that of barley at $1,041,000$ as compared in 1913; that of barley at $1,041,000$ as compared
with 1,025,000 acres in 1913. These differences with 1,025,000 acres in 1913 . These differences represent increases of 211,400 acres for wheat,
294,000 acres for oats and 16,000 acres for barley; or a total increase of 521,400 acres for the
three crops as compared with 1913 . three crops as compared with 1913. The wheat
area in Manitoba is somewhat less than last year, viz: $2,788,000$ acres as compared with 2,-
804,000 acres in 1913. In Saskatchewan the area under wheat is $5,848,300$ ackes as compared with $5,720,000$ acres, and in Alber
$1,611,100$ acres against $1,512,000$ acres.
On June 1st, the condition of field crops, as measured by a standard in which 100 represents the promise of a full crop was very favorable.
The points are as follows: Fall wheat 79, spring wheat 93, all wheat 91 , oats and barley 92, rye 89 , peas 92 , mixed grains
alfalfa 88 and pastures 90 .
Assuming that the conditions between now and
harvest will be equal to the average of the past harvest will be equal to the average of the past four y'ears 1910-1913, the above percentages re-
present the promise of yields equal to the four prear average in the case of spring wheat, rye and barley, and inferior in the case of oats by $1 \mathrm{p} . \mathrm{c}$.
and in the case of fall wheat by 2 p.c.

Does it Pay to Feed Cattle? John H. Earle, a subscriber to "'The Farmer's
Advocate," living in Durham Co., Ont., reports that during the past winter he fed seven head of beef cattle which he turned over to the
drover, on May 31. One of these cattle was a
three-y. drover, on May 31. One of the other six were
three-year-old heifer and the
eighteen months old. The lot weighed $7,515 \mathrm{lbs}$. eighteen months old. The lot weighed 7,515 lis.
and realized $\$ 638$. Mr. Earle concludes his letter to "The Farmer's Advocate" thus: "Does it pay

THE FARMER'S ADVOCATE:

Dominion Legislation for Agriculture
The legislation relating to Agriculture which Parliament at ottawa that closed session, 12th consists mainly of three acts, closed last Friday, austry Act, (2) The Cold Storage Warehouse Act together An Act to amend the Adulteration Act, Animal Contagious Diseases Act relating to the (1) The Dairy
manufacture and sale of dairy Act regulates the ing the sale or manufacture of butter substitutes margarine try the Dominion free from the olenIn this Act ndicative of the change and progression of modproducts" now includes milk the term "dairy ion insisting on a pure, undiluted and healthful manufactories milk or cream is collected for sale or shipment Homogenized milk and cream together with whey butter are also newcomers into the field of law. A change in the wording makes it perfectly
clear that butter no matter how made (that is omiltting the old references to mixing any acid alkali, chemical etc.) must not contain over sixteen per centum of water.
It is provided that print butter must be in


Re-inforcements Needed Now.
'em this way
either one-quarter-pound, one-hali-pound, one cut; this does not refer to farmers' roll or lump butter of indiscriminate weight.
When necessary to make convictions under the of dairy school certificates and graduates of an agricultural college.
New regulations already made under this Act
which come into force the 1st of Septem include compulsory branding of any butter con taining whey as "Whey Butter" and dairy butte in parchment paper prints as Dairy Butter any mixed dairy and creamery butter as "Dairy
Butter"; cheese containing any skim-milla as Butter"; cheese containing any
"Skim "nilk Cheese." The use of thie words "Canada" or "Canadian" on any cheese or butter package is restricted to such products as have
been made in Canada. The fines for violation been made in Canad.
are from $\$ 10$ to $\$ 30$.
(2) The Cold Storage Warehouse Act provides that the Governor in Council may make such regulations as he deems necessary or expedient, to warehouses, Such regulations may provide for the licensing of all cold storage warehouses; for the inspection of all cold storage warehouses; for a system of periodic and other reporth storage warehouses showing the quantities in storage of the several articles of food; for in stiting the several periods of time during which the respective articles of food may be held in cold storage; for the inspection of food products
before they are placed in cold storage warebefore they are placed in cold storage ware
houses, while they are in such warehouse and Where they are removed therefrom, and for label
ling or marking food products or packages of food ling or marking food products or packages of food and when removed therefrom for sale.
(3) Under the third, an Act to amend the Adulteration Act, which touches the adulteration
of maple sugar, the aim is made to protect both used under like conditions. Act to assist in preventing the sale of mille from infected animals.

## ow. national defence, send

 lean bill of health.International Horse Show. and wel
game." crowd. Sumner's horses have as yet done
too well for the Massachussetts enthusiast. the consumer from fraud, and the legitimate members of a great industry from dishonest counpeti-
shall be deemed to be adulterated. Further, the word "Maple" shall not be used either alone or in combination with any other word or words on the label or other mark on a package contuining any article of food or any article of food itself Which is or which resembles maple sugar or maple
syrup, which is not pure maple sugar or pure maple syrup, and any article of food labelled or marked in violation of this subsection shall be deemed to be adulterated within the meaning of
this Act. Neither is the word "Honey" to bo

Simply pausing to note a customs regulation providing that mowing machines, harvesters and reapers are reduced on the intermediate and gen-
eral tariff from 17t to $12 \frac{1}{\text { it }}$ per cent duty, and that complete parts for repairs of traction ditching machines are free, we pass on to consider a most important order in council now in effect, great white plague transmitted from tuberculous cows. It provides that if a municipality desires the aid of the Veterinary Director General, that officer of the Department of Agriculture is now
empowered under the Animal Contagious Diseases

The mortality of children, particularly in cities,
and
made
sation
sation in case
slaughter. No mill
herd or cream shall be sold from a herd containing reAfter two years from the date of the first tent of the cattle of any dairy the sale of millk or
cream is prohibited unless the herd shows

Only one Canadian victory worthy of notice was recorded during the first seven days of the still running at Olympia, London. This was
when, in the quaint leaping contest of two when, in the quaint leaping contest of
horses abreast, the Hon. Adam Beck, finished sec ond with his two brilliant hunter-like leap-
ers, Sir Edward and Sir Thomas, defeated ultiers, Sir Edward and Sir Thomas, deleated ull mately by two French army leapers, which could
quite fairly be described as trick horses, so fully
and well schooled were they to this "indoor
Jame." W. H. Moore, accompanled by his enthusiastic wife, was a big competitor at the days his horses fare The first prize in the class of tandems over 15 hands and mot exceeding 15 hands 2 inches,
went to $\mathrm{W} . \mathrm{H}$. Moore's well-known team, Lord Seaton and Lady Seaton, which made a very great show. This reaily was the clear first and it was a right down popular one with the Single harness horses over 16 hands made
good show. Barron's handsome chestnut good showi Barron's handsome chestnu
Cadogan Fiash made a great show and won Robert Black's Gaythorn being very, good sec
ond. W. H. Moore was third with Aillen-a-Dale and firth went to Moore's Vida Fayre. Th Kentucky Trophy for the best pair of hacks was
won by Walter Winans with Mount Hanover and
Buge March Mrs. Chapman heing won by Waiter Wrs. Chapman being a good =eserve
Bugle March, Mre
with Follow On and Enchantress.


Walter Winans, the American millionaire,
joyed a host of victories in the riding horse Joyed a host of victories in the riding horse and
hack classes. In riding horses over 15 hands 2 inches, his Mount Hanover was first. $H$ He is a
very stylish horse, and his action is excellent. very stylish horse, and his action is excellent.
In ladies hacks Walter Winan's Turquoise may In ladies hacks Walter Winan's Turquoise may
be said to have won cleverly. He is a chestnut,
just short of fifteen hands two inches, and shows just short of fifteen hands two inches, and shows
fine quality. John Drage was second, with Redakin, a well-balanced chestn
and a fine mover all round.
In novice tandems not exceeding 15 hands, In novice tandems not exceeding 15 hands,
first were placed Mel Valley's Bauble and Mel
Valley's Fire, the property of the exatrix Valley's Fire, the property of the executrix of
the late William Foster. They are now owned the late william Foster. They are now owned
by a wealthy London tradesman, W. W. Bourne, who gave 1,150 guineas and 410 guineas respec-
tively for them at the Foster sale. Both are good winners in single harness. Mel Valley's
Fire, then known as Melbourne Fire, and owned by his breeder, Walter Cliff, was first and champion at Islington last year, and also won there
this year, both in hand and in harness, and Mel this year, both in hand and in harness, and Mel
Valley's Bauble has several first prizes to his credit, including three at the International Show and one at the Royal last year. They make a
beautiful tandem team and go well together, beautiful tandem team and go well together,
whilst their quality and action make them stand out conspicuous winners. Mrs. F. E. Judson
was second with Primrose of White Gate and Peacock Sensation, a well-bala
fine quality and excellent action.
Some of the best ponies of the day were seen
in the class for ponies or cobs to be shown with in the class for ponies or cobs to be shown with a governess car and driven by a lady. It looked queer to see a pony that has cost 1,150 guineas
unable to get higher up in a "Governess Car"
class than reserve. Mr. Bourne, however, won class than reserve. Mr. Bourne, however, won
easily with Mel Valley's Fame, whose reputation is worldwide, and who, as usual, made a great
show. He cost 525 guineas at the Foster sale. Mrs. F. E. Judson's Firespark, a stylish bay, with action and pace, was second and Rusper
Walter Winan's trotters, led by Bonnie View,
won all before them in the Standard-bred classes. The class for three qualified hunters belonging to one hunt saw Count Fritz Hochberg win with his team, Black Prince, The Dandy and Robin. Walter Winans was second with a very workman-
like team, ridden by ladies, and was third with another team.
In the coaching Marathon, an event for
coaches over eleven miles from Bushey Park in Surrey to the show-ring, America got a
setback for either Judge Moore or A. G. Vanderbilt have won the event on all the occasions
competed for. Each coach had to carry seven passengers, and was to be set out as though fully equipped for the road. The coaches had to weigh 23 hundredweight. Judge Moore was given the honor of going off first, and he drove four
Standard-bred horses, bays and greys, crossed. They proved a very fast team, but if anything they were spoiled by the near-leader, a wellshaped grey, which was not of quite the same
type as the others. After Mr. Moore came Lord
Leconfield, with a well-balanced bay team of true
coach horses. Spectators were not far wrong in
their choice of Barron's chestnuts, which have twice won at Ranelagh. They were Hackneys with But they were a team, and not merely four horses. They stepped like one, and as they left work. Whatever their breeding, they had courage and pace, and they stayed well, too, for no team
showed better in the ring after the completion of their journey. There was no team among the greys. They were the most workmanlike on the
ground-stout horses with weight ground-stout horses with weight and substance.
They were very devel, and looked like making the journey with ease. Miss Sylvia Brocklebank had four bays of rather a lighter stamp than she has sometimes driven, and the offleader was hardly
of the same type as the others. They move of the same type as the others. They moved
smoothly, and Miss Brocklebank drove steadily reaching olympia well within the time-sixty-five minutes-but not forcing the pace.
one consisting of four bays-handsome standard bred horses-which he himself drove. Wilson, the
professional, handled professional, handled a second team. Both thesa
teams were faat. teams were fast.
The teams av
This is good work over a road with every kind of surface, from asphalt and wood paving to
stones and macadam. stones and macadam
Inside Olympia
Inside Olympia, the judges went for Hackney
type, and Barron's four chesnuts gained the prize. They were a team level in size, typpe, and with more fire and freedom in the ring. Judge Moore's, Lord Leconfield's, Vanderbilt's, Miss Broc'zlebank's, and Tilling's teams were al The Kith well-deserved cheers, and ribbons.
Edward VII. Gold Challenge Cup
Ther officers jumping saw Belgium, Fingland for officers jumping saw Belgium, England,
France, and Russia represented. The Cup won by Russia. France was reserve. This was
the third the third time Russia had won
now goes to the Czar outright.
There is still a week of the show to run, and I will deal with the championship largely in my next letter to you. The show is still a pro-
nounced financial succees. The social butterflies of London are focking to it in countless hundreds-and the joke is, they all "do it"" by
motor! motor!

County shows in England
In Nottinghamshire the cult of the Shire
horse is growing. Open Ylearling Shire Colts had as winner A. H. Clark's Moulton Porter, a ver stylish and shapely brown by Moulton Victor King. In Yearling Fillies A. H. Clark jun.'s
Victor's Choice, a bay with a leg at every corne was first. In Two-year-old Fillies at every corner
son son won with Roycroft Forest Queen, a good-
looking bay with good legs and feet by Ratcliffe
 don and resprve for the championship) led in
Three-year-old Fillies, with Forshaw's Arbour
Modest Queen second.

Williams' Halstead Duchess VII. made a great snow, and led.
In Colt Fo In Colt Foals, James Gould's Lymm Cardinal
was first. In Filly Foals, J, G. Williome with a filly by Norbury Menestrel. Williams led Robinson's local prize went to Smeeton's Bunney Duchess II., with Tom Kay's filly foal that won in the County class reserve. The Shire Horse Duchess of Newcastle's Clumber Wasket, with
Forshaw's Walburgh King reserve Con Forshaw's Walburgh King reserve; and the gold
medal for Mares went to Forshaw's Arbour medal or Mares went to Forshaw's Arbour
Modest Queen, with Matthew Hubbard' Sundial reserve.
In the four local Shorthorn classes, F. B.
wilkinson prominence being H . Sheldon, W. Clark, W. Cran frominence and E. Waddington. In the County classes Earl Manvess won Bull Calves, Yearling Bulls, Hei-year-Cold Bulls, Pairs of Heifer Calves, and Heifers, and F. B. Wilkinson for Two-year-old Heifers. In Open Bull Calves, Swinton Sardonyx, good thick-fleshed red, led for Captain C. Beh-
rens. The leading Old Bull was Royal Sovereign
from Lord Mand from Lord Manvers' herd, and is a threq-yeareign, with grand head and nice fore-end. Banksfield, ewel, that deep, wide and evenly-fleshed heifer,
owned by' R. Cornelius, and the Oxford champion easily led in Yearlings. J. H. Maden won in the years old, that had fine quality cow, now seven rears old, that had fine quality and type.
Suffolk County Show was held at the Suflolk Stallion Championship, K. M. Clarik's
Sudbourne Peter's Sudbourne Peter's chief opponent was Sir Cuth-
bert Quilter's Bawdsey bert Quilter's Bawdsey Harvest King, and they
finished in that order.- Sir Cuthbert Quilter's Pour-year-old mare, Bawdspy Bloom, gained the Mare Championship, with the prize three-year-old Sudbourne filly Merrilass reserve
class with Royston Forest Kinire Stallion afterwards declared champion. J. G. Williams' Garston Surprise took the Female Championship, Lassie.
Older Shorthorn Bulls saw Appleby's Rea Older Shorthorn Bulls saw Messrs. Chivers
win; their River Broadbrooks took the premier award. J. B. Dimmock's Ascott Banner, a nioe red roan, won the special for the best Shorthorn Wellingborough was the venue of the
Northamptent corthamptonshire Show. Here there was keen in which the Dairy Shorthorn Association gave Sons' prize, and it went to R. W. Hnbbs and tain Willis having the second in his beautiful capBarrington Duchess 34th, and E.A. A. Smith Dairy with Thurndale Belle 19th. The British Dairy' Farmers' Association silver medal went to
Preece's Windsor Pansy, Hobbs' Dulce 8th being In Aberdeen-Angus J. J. Cridlian's Duke of pionship. Duke of Grafton's also taking cham mionship. Duke of Grafton's Duchess of Dalmeny
5th, led in the Female class, his Grace's Minnie
2nd 2nd of Wakefiold, being placed hext. Grace's Minnie
2n the

## Toronto, Montreal, Buffalo, and Other Leading Markets.



## THE ROYAL BANK OF CANADA

## Captan Authorzeed - \$ $25,000,000$

Capital Pald up
Reerre
Runds
Reaerre Fund
Total Asesets
$111,500,000$
13,000000
$180,000,000$
HEAD OFFICE: MONTREAL
Branches throughout every Province
of the Dominion of Canaza.
Accounts of Farmer Invited

Sale Notes Collected
Savings Department at All Branches
wheat patents, $\$ 3.85$ to $\$ 3.90$ bulk,
seaboard. Manitoba flour-Prices at Toronto are: First patents, $\$ 5.70 ;$ second
patents, $\$ 5.20 ;$ in cotton, 10c. more; patents, $\$ 5.20 ;$
gtrong bakers',
$\$ 4.90$, in jute.
hay and millfeed.
Hay,-Baled, car lots, track, Toronto,
No. $1, \$ 14.50$ to $\$ 15.50 ;$ No. $2, \$ 12.50$
No. $\$ 13 . \$ 14.50$ por ton. $\$ 1.50$; No. $2, \$ 12.50$
to Straw.-Baled, car lots, track, Toronto, $\$ 8.50$ to $\$ 9$.
Bran.-Manitoba,
B25, in bags, track, Bran.-Manitoba, $\$ 25$, in bags, track
Toronto; shorts, $\$ 26$ Ontario bran, $\$ 24$
in bags; shorts, $\$ 25 ;$ middlings, $\$ 28$. COUNTRY PRODUCE. Butter.-Recelpts have been liberal, causing prices to be easy. Creamery
pound rolls, 24 c . to 26 c .; creamery solpound rolls, 24 c . to 26 c .; creamery sol-
ids, 24 c .; sepparator dairy, 23c. to 24 c .; store lots, 20 c .
Eggs.-The market for new-laid eggs
was easy, at 28 c . to 24 c ., by the case. was easy, at 28 c . to 24 c ., by the case.
Beans.-Imported, hand - -picked, $\$ 2.40$; Beans.-Imported,
Canadians, hand-picked, $\$ 2.40$; primes $\$ 2.25$ per bushel.
Potatoes.-Car lots of Ontarios, per
bag, track, Toronto, $\$ 1.10$. New Brunsbag, track,
wick Delawares, $\$ 1.10$ 'to $\$ 1.15$ per bag, track, Toronto.
Poultry.-Cold-storage is now being used, and prices were quoted as
Turkeys, 21c. to 25 c . per 1 b. . geese, per
m 14 c . to 15 c .; ducks, per $1 \mathrm{~b} ., 14 \mathrm{c}$. to 20c.; chickens, per $1 \mathrm{tb} ., 17 \mathrm{c}$. to 23 c .
hens, per $\mathrm{t} ., 14 \mathrm{c}$. to 17 c .
Spring
chickens are coming forward in chickens are comile ang at 45 c . to 47 c . per
lots, and are selling
th dreased ib. dressed.
hides and skins. City hides, No. 1 inspected steers and
cows, 14c.; No. 2 , 13 c.; city butcher
hides, flat 14 cc .; country hides, cured,

 low, No. 1. per $1 \mathrm{~b} ., 5 \mathrm{tc}$. to to 7 c . Wool
unwashed, coarse, $17 \mathrm{t} \mathbf{c}$.; wool, unwashed
fine, 190
fruit and vegetables. Receipts of Canadian fruits and vege
tables are so steadily increasing that the Stroet opened this past week. Prices were quoted as follows: Apples, Ameri-
can, $\$ 2.50$ per box ampricos.s. $\$ 3.25$ per
ber ox; blueberries,
oupes,
otandards, $\$ 4.75$
anies,
at. dian, 75 c . per small basket, and $\$ 1.50$
to $\$ 1.75$ per large basket: gooseberries
Canadian, $\$ 1.25$ per basket; grape fruit,




 peas, 60c. per smand
toronto horse market.
 were taken by eastern buyers fro
few going to the local city trade.
Prices ranged as follows: Prices ranged as follows: Drafters,
$\$ 175$ to $\$ 250$; Ieheral-purpose horses,
$\$ 150$ to $\$ 245$, expresears) $\$ 1.30$ to $\$ 200$, $\$ 150$ to $\$ 225 ;$ expressers, $\$ 160$ to $\$ 200$;
drivers, $\$ 100$ to $\$ 200$; serviceably
sound sound, $\$ 85$ to $\$ 80$ each.

## Mr,ntreal.

Live Stock.-Weather during the past weelk was cool, and this, to some extent,
favored the consumption of meat and the demand for cattle. Prices con-
tinued firm partly on acty on this account, an
Prices Prices of chicest steers were as high as
9c. to 9 atc. per 1 b . for small lots, this being an exceptional figure. Otherwise,
the price ranged from 8ic. to 8iq. per lo. for fine stock, and from 8c. to 8ic
for good, while medium ranged from 7 c
to
 Prices of sheep declined slightly, year
lings selling at 5tc. to 6c. for ewes, an lings selling at 5tc. to 6 c . Por ewes, an
4t.c. to 5c. for bucks. The price of
spring lambs, however, continued steady and sales took place, at $\$ 3$ to $\$ 8$ each
and
Calves were quoted at the usual price of $\$ 3$ to $\$ 6$ for ordinary, and up to $\$ 10$
for hog market continued, and prices droppe of to 8 zc . for selected
heaviest sold at 7 gc . to 8 k c .
Horses.-Prices of horses show little
alteration from week to week. Demand
was not very was not very active. Horses weighing
from 1,500 to 1,700 lbs., sold at $\$ 275$ to $\$ 300$ each; light draft, weighing from 1,400 to 1,500 lbs., $\$ 225$ to $\$ 275$ each;
broken-down, old animals, $\$ 75$ to $\$ 127$ each, and choicest saddle a
animals, $\$ 350$ to $\$ 400$ each
Dressed Hogs.- Prices of dressed hogs
were generally easier last week and was knockedy easier last week, and abo doir-dressed. fresh-killed hogs, 12 zc .
12 12c. per ib.
Potatoes. -The stock of potatoes was
light, and light, and good stock quite scarce, so
that prices were higher last week. Green
that that prices were higher last week. Green
Mountains, in car lots, were quoted at
s1. $\mathbf{\$ 1 . 1 0}$ to $\$ 1.15$ in bags of 90 lbs., whilo
Quebee stock was 90 . to 95 .., and reds were ${ }^{8} 8 \mathrm{c}$ c. to 90 c . In a smaller way,
prices ranged from 15 c . to $\begin{aligned} & \text { 20c. above }\end{aligned}$ prices rang.
these figures.
Honey and Syrup.-Maple syrup in tins
was 60 . to 650 . in small tins, and up
was 60 c . to 65 c . in small
to 85 c . in $11-\mathrm{lb}$. tins. Sugar was 8 j c .
to to 35c. in 11-1b. tins. Sugar was honey
to 1 cc per 1b. White-clover comb honey
was 13 c . was 13c. to 14c. per 1b.; extracted, 10c.
to 11 c . dark comb, 12c. to 13 c ., and
strained. 6 c . c . 8 c . per strained,
Eggs. - The market for eggs was very high lor the time of year, but the ab-
sence of very hot weather helps greatly. sence of very hot weather helps greatiy
Prices were 22 t. to 23 c . for wholesale
lots of straight-gathered eggs, and 26 c . for single cases of selected stock, with
21 c c.
Butter.-Creamery stocks were said to be light, and in any case prices were
high and firm. $\begin{gathered}\text { Choice quality creamery } \\ \text { and }\end{gathered}$
anc. fine at 24 c . to $24 \ddagger$ c., while seconds were 23 c. to 23 ¢ c and Ontario dairy was 21 c . to 22 c ., an
Manitoba 19 c . to 20 c .

change in the price of cheese. We. an
colored was 13 tc to 13 tc per 1 lb ., an
white, 12 fc . .o 13 c . Eastern cheese wa

## 12 ifc. to 12 qc . for colored, and 12 zc . 12 c .

Grain.-The market for oats was higher
Nestern Canada oats were quoted
at 44 c. per bushel, ex store, in car lots,
and No. 3 at 43 c. ., with No. 2 feed at
42 3. to to 43 c . per bughel.
Flour. - Manitoba first-patent flour wa unchanged, at $\$ 5.60$ per barrel,
seconds being $\$ 5.10$, and strong bakers
$\$ 190$ Ontario winter-wheat flour wa
 rullers, in wood
Millfeed.-Millfed showed no change Bran sold at $\$ 23$ per ton. and shorts ${ }^{2}$
$\$ 25$ in bags, while middings were $\$ 28$
$\$ 28$ including bags. Mouille was $\$ 30$ to $\$ 8$
per ton for pure, and $\$ 28$ to $\$ 29$ for mixed.
Hav.-The weather continued favorabl
and or the new crop. though more
would be welcomed. No. 1 pressed hay
car lots. Montreal. track. was $\$ 16.50$ to
col $\$ 17$ per ton. while extra good $\$ 14.50$ to $\$ 1$.
$\$ 15.50$ to $\$ 16$. and No. 2.
He $\$ 15.50$ to $\$ 16$. and No. 2. $\$ 14.50$ c. $\$ 1$.
Hides.-Lamb akin were up 5 c. eac
Prices were: Beet hides 14c., 15c. a

16c. for Nos. 3, 2 and 1, respectively.
Cail skins were 16 c . and 18 .
and 1 , and 1, and sheep skins were $\$ 1.35$ to $\$ 1.40$ each. Lamb skins were higher, at
30c. each, with horse hides ranging from $\$ 1.75$ for No. 2 . to $\$ 2.50$ each for No.

1. Tallow sold at 1 the. to 3. for rough,

## Buffalo.

$\qquad$ ast week. Some few loads of toppy,
weighty steers, brought steady prices, extreme toppy kinds ranging from $\$ 9.25$ $\$ 9.30$, but the quality and finish was
better, and compared with the previous week, sold possibly a nickel to a dime
higher. Shipping steers ranging from $\$ 8.75$ down, and especially where coarse,
plain and light, running around twelve hundred, wero quotably a dime to fifteen cents lower. There were thirty-five cars of steers suitable for shipping demand,
and they were placed early, demand be
ing strong from the east. Butchering and they were placed eariy, demand
ing strong from the east. Butchering
cattle generally ranged from a dime to cattle generally ranged from a dime to
a quarter lower, the inside takk-off being on yearlings and choice, handy, butcher-
ing steers.
Several
loads of baby ing steers.
beeves, the
eros
rom $\$ 8.80$ to $\$ 8.90$, and went to local
packers during the first hours.
Supply packers during the first hours. Supply
ran freely of grassy cattle, and these, in
most cases, were most cases, were a fyll quarter lower.
Bulls sold a shade lower, the grassy grades running from a quarter to half
dollar under the strictly dry-feds. The stocker and feeder market was weak
supply being, in the main, little, comsupply being, in the main, little, com-
mon stuff, and it sold slow. Eight cents
took mon stuff, and it sold slow. Teeding line;
took about the best in the fer
they were of good quality, but not they were of good quality, but no
heavy. Milker and springer market was
hlow and draggy, trade in this division being from $\$ 2.50$ to $\$ 5$ under two week ago. Authorities generally are of the
opinion that strictly dry-fed cattle will continue to bring good, strong values,
and the general impression is that ther and the general mpress on these. At the
will be none too many of the
present time, auite a few twelve-hundred present steers are coming to market not quite heavy enough, and while they ar
taken by the east, nevertheless they would bring more money if they carried
fity pounds more weight. Yearlings that are strictly choice are being bought readily, both by the packers and smane
killers. Large consignments of Argenkillers. Large consignments of Argen-
tine beef for the big packers arrived in New York the past week, and but for this, sellers think that prices would be
even higher than at present on the prime cattle. The past week, quite a few
other market cattle were marketed here. other market catte were mers, light, and
Most of these were graser
of ordinary quality. They come in comof ordinary quality. They come naking
petition with common natives. making
this class of stuff more plentiful than the better kinds, and in consequence are
not seling as satisfactorily. orily a fow notsen of Canadians the past week, and loads of Canadians ine
they were mostly shipping steers, best of
mich ranged from $\$ 8.75$ to $\$ 8.85$. Some which ranged from $\$ 8,75$ to $\$ 8.85$. Some
distillers brought $\$ 8.90$. Receipte the distillers brought $\$ 8.90$ Recelplatint
past week frgured 5,085 head, as agginst 4,375 for the previous week, and 4,265
for the corresponding week a year ago. about 30 cars of
week. Quotations
week. Quotations :
Choice to prime shipping steers, $, 1,250$ to 1,500 lbs., $\$ 8$ to $\$ 9.80$; fair to good
shipping steers, $\$ 8.50$ to $\$ 8.85$; plain shipping steers, $\$ 8$ to $\$ 8.40$; choice to
and coarse, $\$ 8.25$ to and coarse,
prime handy steers, $\$ 8.40$ to $\$ 8.65$; Rair
o good, $\$ 8.15$ to $\$ 8.25$; light, commonn

 butchering heifers, 87 to 87.75 ; best,
 cutters, $\$ 8.90$ to $\$ 5.25 ;$ best feed t
8.75 to $\$ 8 ;$ good feeders, $\$ 7.35$ t cutcers, to $88 ;$ good feeders, $\$ 7.35$ to
$\$ 7.75$
$\$ 7.65 ;$
to
best
stockers,
$\$ 7.50$
to
 $\$ 6.50$ to $\$ 7$; stock and medium bulle
$\$ 5.50$ to $\$ 6.50$; best milkers and apring $\$ 5.50$ to $\$ 6.50$; best milkers and spring
ers. $\$ 75$ to $\$ 90$ good milkers and
to springers, $\$ 55$ to $\$ 85$ : common milker spind springers, $\$ 35$ to $\$ 50$
Hogs. -
40,000; previous week, 33,120 ; year ago
32.320 . Week started with an 8.40 market for packers' kinds, and there wa a reaction he next few days, bulk
ing Thursday and Friday at $\$ 8.60$. Pi
sold ing Thursday and
sold down to $\$ 8.10$ the
week, and part of the
wednesday these weights brought the same price as the
weight grades, $\$ 8.55$ to $\$ 8.60$
twenty decks of Canadians the part
week. Monday they sold at $\$ 8.85$, Tlfo-day $\$ 8.40$, Wednesday none here, Thursday they brought $\$ 8.40$ to $\$ 8.45$, and
Friday, general price was $\$ 8.40$. Roughs, $\$ 7.15$ to $\$ 7.85$; stags, $\$ 6$ to $\$ 7$.
Shoep.-Lamb market was steady, best Sheep.-Lamb market was steady, best
springers bringing from $\$ 9.50$ to $\$ 10$, springers bringing from $\$ 9.50$ to $\$ 10$,
while top tor yearling lambs on the dry
fed Whe toder, was $\$ 8.75$, those showing
fed or dow. Sheep ac-
grass going from $\$ 8$ down. tive. Deck of choice, handy wethers,
sold Friday $\$ 6.75$, and ewes went from $\$ 5.50$ down, heavy ones underselling
handy ones by $\$ 1$ to $\$ 1.25$ per cwt., exhandy ones by $\$ 1$ to $\$ 1.25$ per owt., ex-
treme heavy ewes being hard to place the
latter part of the week above $\$ 4.25$. latter part of the week above $\$ \mathbf{4 . 2 5}$.
Receipts the
 tively, being $5,400,5,600$ and 12,400 . Calves, -Mostly a $\$ 10.50$ market for
top veals for the entire weel, a fow lop veals for the entire week, a fow
selected ones selling Monday and Wodnes-
Culls, $\$ 9.50$ down, and day at $\$ 10.75$. Culls, $\$ 9.50$ down,
feds, $\$ 5$ to $\$ 6.50$ No Canadians to peak of. Receipts the past week,
,150; previous week, 8,000 ; year ago,

## Chicago

Cattle--Beeves, $\$ 7.85$ to 89.85 ; Texad ers, $\$ 8.10$ to $\$ 8.10 ;$ cows and heifer 8.60 to $\$ 8.80$; calves, $\$ 7$ to $\$ 10$
 sulk of sales, $\$ 8.85$ to $\$ 8.42$.
Bhive
Shoep and Lambs.-Sheep, native, $\$ 5.80$ Sheep and Lambs.-Sheep, native, $\$ 5.80$
to $\$ 6.40$ yearlings. $\$ 6.80$ to $\$ 7.50$.
Lembs, native, $\$ 6.50$ to $\$ 8.40$; spring

## Cheese Markets

$\qquad$ Vankleek Hill, white, ored, 12 gic.; AAlexandria, white, 1212 8c.;. Kingston, 122 c. .; Brookville,
ored, 12 18-18c.; 12 co . refused for white


## Gossip

Attention is directed to the advertisement elsewhere in thls Lssue of one of
the best farms in Oxford County. Lool it up, and write Chas. V. CanAeld, O Look up Rock Bailey, Liook up Rock Bailey's advertisement of a sate of Tersey oattie at Union, Ont.e
June 80 Th. $T$ wenty - Ave head will be bo
sold, including seven heitera, two sold, including seven heifers, two.year-
olds, which will freshen early in July. olds, which will freshen early in July
Write to R. R. No. 4. Union, Ont., for hurther information.
Volume 20 of the Kent or Romney
Marsh Flock Book, published by the Kent Marsh Flock Book, published by the Kent
or Romney Marsh Sheop-breeders' Asooor Romney Marsh sheep-broeders Assued
ciation, Incorporated, has been
from the press, and a copy received at from the press, and a copy received at
this office, by courtesy of the Secretary this office, by courtesy of the Secretary
and Editor, W. W. Chapman, Mowbray House, Norfolk street, Strand, London, W. C. Flocks registered in this volume
number from 2 to 182; rams number from 38700 to $35978_{;}$ewes from 3780 to from 38700 to 85978 ; ewes from 3780 to
6440, and the membership list of the
society numbers 146 . The volume consociety numbers 146. The volume con-
tains 859 pages, is exceptionally well leins 839 pages, is exceptionally wol
bound, creditably edited, and indicates decidedly rapid increase of popularity of this strong, healthy and heavy-hhoaring
breed of sheep, as shown by the record breed of sheep, as shown by the rectord
of export certificates in recent yearl.

Trade Topic.
$\qquad$ A very ine ship for the passengor trado
between England, Brazil. and the River
Plate, was recently launched at Bello trom, was recently launched at Beiliels
from the yarland o Woik,
年 Limited. She was built for the Royal Mail Steam Packet Co., who operate east and west coasts of South America. Canadian - West India service. The new
hip is boe teot gross. Her nume is the "Alcantara,
and from reporte in the English pres

The Old Home.
An old lane, an old gate, an old hous
A whld a trood, a wild brook-they will
In. boyhood I le knew them, and still they
call to me.
Down deep in my heart's core I hear
Through tear mists behold them beneath
the old-time skies,
bee boom and rose bloom and
orchard lands arise.
I hear them, and heartsick with longing
To walk there, to dream there, beneath
Around me, within me, the weary world
made whole.
To talk with the wild brook of all the
long ago;

- whisper the wood-wind of things we

When wed tore oldi companions, before
To walld with the morning and watch its
To drowse with the noontide, lulled in
To lie with theart night time and dream the
dreams of old.
To tall to the old itrees and to each
The longing, the
The old boyhood briet:
me of my grief.
The old lane, the old gate, the old
The wild wood, the wild
will not let me be. call to me.-Madison and still they

## The New Story.

We are pleased to announce that by special arrangements with the publishers,
we have secured the serial rights for the
publication publication of ""ETEER, A STORY, OF
WHICH HE IS NOT THE HERO," by the well-known author, F. Hopkinson the central figure of the story, a do
lightful old gentleman of of high ideals and the fine manners and true courtes which come from forgetfulness of sel and consideration of others. We can
recommend this story to our readers as
distinctly worth while recommend this story to our readers as
distinctly worth while.
stallment will appear in our isst in in stallment
July 2nd.

Browsings Among the Books.
The dally friction.
(From "Tha Human Machine," by
It is with common daily affairs that I
am now dealing, not with heroic enter-
prisea. ambitions mart prises, ambitions, martyrdoms. Take
the day, the ordinary day in the ordin-
ary house or office ary house or office. Though. it comes
seven times a weerk, thad is the most panal thing imaginalile, it is quite
worth attention How does the ma-
phine get through it? Ah the host ohine get through it? Ah: Whe best
that can be said of the machine is that it doen, get throwh it, somehow
The friction, hough seldom such a." to
bring mattens to a slandstill bring matters to a slandstill, is fie
quent-the sort of triction that, when it occurs in a bicycle, is just suficient to
ennoy the rider, but not sufficiont to
make him get off the mierhine and examine the bearings. Occasianally this
Uriction is very lond, indeed, disturbing,
and at rarer inse brake out of shrieks, hike an those days when of order. You know that life is not large enough to con-
tain the household or when the household or the office staff. when ths business of intercourse may b
compared to the manoeuvers of two people who, having awakened with bad headache, are whliged to dress simultaneously in a very small bedroom.
"After you with that towel !" in cents of bitter, grinding politeness. '"It you could kindly move your things off this cheir !' in a voice that would blow ture to say l that you know those dens, "But,", you reply, "'such days are fays, Priction, though less Well, usually, the proceeding. We grow accustomed to it. We scarcely notice it, as a person in a
stuffy chamber will scarcely notice the stuffiness. But the deteriorating infuence, due to friction goes on, even if ceived its ravagee-and write a letter to the Telegraph to inquire whether life is worth living, or whether marriage is a failure. or whether men are more polite
than women. The proof that friction, in various and varying degrees, is practically continuous in most households iles in the fact that when we chance on a household where there is no
friction we are startled. We can't re cover from the phenomenon. And in describing this household to our friends we say: "They get on so well to-
kether,". as if we were saying : "They kether, as if we were saying: "They
have wings and can fly! Just fancy ! Did you ever hear of such a thing ?" Ninety per cent. of all daily friction Try this experiment. Say, "Oh, you little darling, you sweet pet, you entirely charming creature! !" to a baby a a dog; but roar these delightful


Beauty Spots in Canada-Wishing Well, Kilworth, Ont.
infernal little nuisance! If I hear an-
bether sound I'll break every bone in ther sound
your body !', I'll break every bone in
The baby will infallibly whimper, and the baby will infallibly mouch off. True, a dog is not a
human being, neither is a baby. They human being, neither is a baby. They
cunnot understand. It is preciseffy bearticulate words that understand and alunblo; for it separates the effect of the tone from the effect of the words
spoken. $11 e$ who speaks, speaks twice tis words convey his thought, and his tone conveys his mental attituds to-
wards the person spokan to
goes, is attitude, so far as friction thought. Your wife, may bay to you about." buy that hat I spoke to you sincerely, "As you please." But it will ver. "As your tone whether you conthetically anxlous that your innocent caprices should be indulged." Or whether you convey, "As you please. Only don't bother me with hats. I am
above hats. A great deal too much money is spent great deal too mis this house hats. However, I'm helpless!'
Or whether you convey.'"As Or whether you convey., "As you please,
heart of my heart, but if you like to be a nice girl, go gently. We're rather tight." am sure of being comprehended.
it is one is the expression of attitude, it is of course, caused by attitude.
The frictional tone is chiefly due to that general attitude of blame which I have already condemned as being absurd and
unjustifiable. As, by constant watchful unjustifiable. As, by constant watchful
discipline, wo gradually lose this silly attitude of blame, so the tone will of itself gradually change. But the two meliorations can proceed together, and tone, a curious thing that an artificially and deeable
ardiberately adopted, will influence the mental attitude almost as much as the mental at-
titude will influence the tone. If you titude will influence the tone. If you
honestly feel resentful against someone, but, having understood the foolishnesse of ury, intentionally mask your fury under a persuasive tane, your fury will at
once begin to abate. You will be led into a rational train of thought; you will see that after all the object of your resentment has a right to exist.
and that he is neither a doormat nor a scoundrel, and that anyhow nothing is to be gained, and much to be lost, by
fury. You will seo that fury is unfury. You will see that fury is un-
worthy of you.

Do you remember the gentleness of the tone which you employed after the heal-
ing of your first quarrel with a ing of your first quarrel with a beloved
companion?
Do you remember companion? Do you remember the per-
suasive tone which you used when yout wanted to obtain you used when you
dificult porsing from a dificult person on whom your happiness
depended? Why should depended? Why should not your tone
always combine these qualities? Whe atways combine these qualities? Why
should you not carefully school your
tone? Is it teneether tone? Is it beneath you to ensure the larg-
est possible amount est possible amount of your own "Way"
by the simplest by the simplest means? or is there
at the back of your mind that peculiar Iy English and Garman idea that polito
ness, sympathy, and respect for another immortal soul would imply deplorable weakness on your part? You say that
your happiness does our happiness does not depend on to. Yes, it does. Your happiness is Produce dependent on just that person. Produce friction, and you suffer. Idle
to argue that the person has to argue that the person has no busihave caused avoidable friction, simply because your machine for dealing with your environment was suffering from
pride,
ignorance, You say I am making a mountain out of a mole-hill. No ! I am making a And that out of ten million mole-hills. little but continuous causes the is the great effect. I repeat, Why not deliberately adopt a gentle, parsuasive tone-just to see what the reoulte are? You may smile not ashamed to be wise. this. Yet you kpnow very well that more than once you have resolved to use a gentle and persunasive tone om all you had that fearful shindy yeoteriday with your cousin's sister-in-law was that you had long since failed to keep your
resolve. But you were of once, and more than wence. of my mind
What you have to What you have to do is to teach the new habit to your brain by dally con-
centration on it; by forcing your brain to think of nothing else for half brain of a morning. After a time the brain will begin to remember automatically. For, of course, the explanation of your
previous failures is that disciplined, merely forgot at the oritical moment. The tone was out of your mouth before your brain had waked up. It is necessary to watch, as thougb you
were a sentinel, not only againat the wrong tone, but against the other afmptoms of the attitude of blame, such as the frown. It is necessary to. regard
yourself constantly, and in minute do yourself constantly, and in minute de-
tail. You lie in bed for half? an hour and enthusiastically concentrate on this beautiful new scheme of the right tone.
You rise, end because you don't achieve You rise, and because you don't achieve
a proper elegance of necktie at the first knotting, you frown and swear and clench your teeth! There is a symp-
tom of the wrong attitudd tom of the wrong attitude towards your
environment. You are awake, but your environment. You are awake, but your
brain isn't. It is in such a symptom that you may judge yourself. And not a trifing symptom either ! If you will
frown at a necktie, if you will frown at a necktie, if you will use
language to a nectitie which no gentlemou bhould use to a necktie, what will

## Children and Liberty

(By Mrs. W. E. Hopkins.)
The sentiment which now prompts this The sentiment which now prompts this
article must, I thinks, have been ome of
the first of my many revolutionary tions, for I reumember giving it denaiant expression when but a little maid of
nine or thereabouts. "When. I nine or thereabouts. "When I have
babies," I told my mother while reprovingly watching her mummily a new bab brother in yard-long, swaddlling cloths "I shall not tie up their poor littlo legs "Then your babies will grow up with bow-legs and crooked brow up with
mother rebuked sternly mother rebuked sternly.
"But my back is crooked Lou has bow-legs," I argued. "and aister baby $t$ was'nt worth while to roll up irri Such a chilld!" exclaimed my mother irritably. "O1 course not, silly, a crut then." I persisted, "whyy have "Or a busy tangue ?" snapped

JUNE 25, 1914
THE FARMER'S ADVOCATE.
Was always as careful with my girls,
even though they came to me as plentitully as the thorns on a wild rosenush,
as I am now," giving the cloth a firmer twist, '"now,'
When in course of time and nature the
babies did come to me, I, true to my long-charished convictions, refused absolutely to roll them up into the tight clothes of infant fashion. As a mother I burned with the desire to give my children as much frsedom as could consistently be given to human beings.
From the first moment of their birth they were left to wiggle their pink toes and kick their chubby little legs to their heart's content;' or to sleep, or wake, or
cry, when they so wished. I would not rock or dandle them. I would not stop their little mouths with food that their stomach did not need. I would not
bathe them oftener than once a day, nor awaken. them for show purposes. I was simply determined to act in the
way of Nature with the helpless little ones intrusted to me; and the little
ones repaid me richly by aeing ones repaid me richly by being 'natural
with me. Not one of the four ever caused me a night's wakefulness or or
anxiety. They were always well, and anxiety. They were always well, and
happy and contented. And the greatest happy and contented. And the greatest
satisfaction of all is that apart from
their rightful share of original sin they have so far, amd the youngest is nine gnown up without mental or physical
crookedness. Do we ever
Do we ever stop to reflect that our child
rea are as easily the most repressed all young growing things, as we are the most curiously inconsistent creatures that live? For instance, we deem our-
selves far too wise to curtail the free dome, or impose any task, what tsoever on the young of our animal stock during
the pariod of their growth and the pariod of their growth and develop-
ment. We are careful to mont. We are careful to give them
plenty of fresh air and sumlight. We sacrifice a great deal to give them wide fields where they may friskl/ and frolic to thoip heart's satisfaction and our's
alse, for we know that every dash of alse, for we know that every dash of
sirit and play is an investment of anirit and play is an investment of
Whick we shall draw the returns when
the animal reaches maturity we the animal reaches maturith. We are
ready at all times to recognize the ready at all times to recognize the of the puppy or kitten, to laugh at their merry antics; to look with indulgeat eyes on the mischief that they
perpatrate. All ta the purpose of raiging eattle or horses, or whatever ani mal it may be for profit and solid satisfaction.
But bow
But how contrariwise we act in regard same instinct and necessity for freedom as the young of all kind! How we in sist that they must behave like little
old men and women. How we stunt old men and women. How we stunt
them under a system of steady repreo them under a system of steady repree and mustn't do that. We set them
atint of study that would stagger a ma stint of study that would stagger a ma-
ture mind, and they must get through ture mind, and they must get throug
it somehow. We force them into al most continuous confinement in ill-ventilated school-rooms, and they must bea
it somehow. We inflict on them punishit somehow. We inflict on them punish
ments, we impose on them tasks, we de mand fof them feats of endurance. that we simply would not dare to think in connection with any one who had the
power to retaliate against us or the power to retaliate against us or the
strength to resist oour unjust supremacy and they must submit and endure and
accomplish somehow. But through it all what a most convincing example of triumph of the Darwinian theory of natural selection, of the wondertul powe of admptability of the human species in
the midst of unnatural conditions, of the magnitude of resistance possible in life, im the feeblest little body, in the fraileot little mind! The fact. how-
ever, which most utterly amazes me is ever, which most utterly amazes me is
the enical calm, the indifference, the inthe eloical calm, the indiference, the pitiful tory told in the statistical recor
of ctirdren mortality, and the wonderfiul of chiddren mortality, and the wonderfun Way that we have of taking our gen-
eromety to the colt or calf, the puppy or young pet of any kind, as a mere matter of course. While we talk of our devotion to our children and of our
accrifees for their welfare. Are there eacrifices for their welfare. Are there
any bi blind as those that will not mos! nuect to
make it so. We shortan the years of
the end in exact proportion to the mea-
gure that we shon sure that we shorten those of the be-
ginning. The boy old before his tine simply means the man ofd before his time. We rob laurselves. we rob hour which to the happy, through leisure in nocessary complexities of life that wu have invented and still invent every dary. We. tho would not dare to evory
food on a child already filled to repletion, have no scruples of any sort with regard to the far more sensitive and important matter of his mind. No
farmer would be foolish enough to think farmer would be foolish enough to think
of teaching his draft colt the fancy gaits and manners that are essential to the saddle horse or driver, but we, in our abuse of little crivildren, begin by wanting them to leanh so many things
in general that we generally finish by not having them know anything in par-
ticular. We discipate chicular. We dissipate the energy of the
che waste the gray matter of hig immature mind, the strength and health of his growing body, the budding bloom of his sensitive spirit, on a multionc-
ity of studies that are of no valic interest to that particular child. We stunt our young mentally, physically and spiritually, by the bewildering complexity, and the repressing quality of
the burden that we place upon him in hie formative years. We are unfair to the child. You ses there is, so much that the child must learn, so much that cannot help leaarning, every fresh sensation is a fresh lessom to the child. He is learning to see and speak, to think and behave, to understand and reason conditions, at the same time that the insatiable demands of growth and development are making the heaviest drain on his strength and spirit. Even with-
out any : set lessons the child is learning more and faster than we, with intellects dulled through the same process that is dulling that of our children, can
almost comprehend or imagine. Were we as wise with the child as we are with the coll that we wish to raise to the splendid stature of a fine maturity, we would discourage him from too much
effort rather than spur him on too ever eilort rather than spur him on to ever
greater endeavors; we would withhold from him all knowledge not ardently desired, strictly necessary or practically
beneficial: we weuld wait for a full dovelopment of strength and size before fitting him with bit and bridle Life is short. Aye, and childhood
the very shortest period of it all. M the very shortest pariod of it all. Ma- cation of the child must not be by com-
turity, middle

The Old Home.
and of retiremert, are all long as com-
pared to that fleeting should be that fleeting time of what
preedom and first im pressions. It is the most precious posthe happiest and most care-free. If we rob the child, thinking to repay the man or woman through the knowledge that a vast and irreparable mistake. What we rob from the child of freeciom What
happiness, of happiness, of rightrul development, of
enjoying capacity of the life enjoying capacity, of the life of the
fields and the friendship of Nature, we can never repay for the simple reason
that the child will never be there again to receive it. I do not mean to say
that the child should nate have any tasks whatsoever. What mean is that he should not be compelled o learn; that he should not be compul-
sorily confined for his lessons: that should confined for his lessons ; that he and and one ways that make up our present custom with children. The chil is a born imitator. If we taught our-
selves a iot of things that we want our chlldren to know and practice, if through our personal example we would
demonstrate the desirable qualities demonstrate the desirable
certain aualities
acquirements, or certain acquiremente, or virtues,
principles, we would find the young We need, oh so much, 'to any kind. We need, oh so much, 'to revert to
Nature and her ways, which are to Nature and her ways, which are to a
ways present that which she wants teach as eminently desirable or wonderfully attractive or interesting. Do we need coercion to learn of life and love
of field and foreet lore, of the many many things of which Nature is the monitor. We are all, big and little,
selfish to the degree that if a subject selfish to the degree that yif a subject
fires our imagination, if a certain ac. fires our imagination, if a certiain ac-
quisition becomes necessary, if a particular qualification plainly contributes to our happiness, it simply resolves itseli
into a game to win, a pleasure to pur into a game to win, a pleasure to pur-
sue, a play in which it spells life and health to perform our part.
It is a wise mother who seeks to im-
pose her will on her children as littie pose her will on her children as little
as posible, who gives them a chance as possible, who gives them a chance
of developing their own individuality,
who seaks to train their wills instead who seeks to train their wills instead
of being determined to break them. of of being determined to break them. Of
course every mother wishes too be obeyed by her children, but only that mother is really happy whose children obey her in spite of the
of not doing so
[WMrs. Hopkins, in the above article,
has grasped the principle that the eduhas graisped the principle that the edu-
cation of the child must not be by compulsion but by freedom. This is the
principle upon which Dr. Montessorl has

based her wonderful system, a system which, when carried out right, enables progress as the ordinary normal chuch-
ren of to-day; and the ordinary ren of to-day; and the ordinary normal children such progrese as stamps them
almost as superchildren;-all this without averstraining the children in the least; indeed actual experiment has shown that the little ones under Dr. happier and brighter than thlose left to undirected liberty outside of her schools. The whole world to-day is in a remark-
able state of transition. Dr. Montessori's system of education, with its happy freedom and wonderful results, may prove to be one of the strong orces that will hasten the coming of
the superman, who, we like to believe, will be the ordinary man of the future.-

## Hope's Quiet Hour.

## Diversities of Gifts.

 wero the haering? the tho whole were how hath God seet the members overy One of them. in the body, aro thath nember, where were the body $7-1$ cor

St. Paul, in this chapter, declares that our business as members of a great body
is to do the special work given us to
do do, do it faithrully for the good of the
whole community whole community. He explains that
God gives His Spirit to each, but the Spirit of Life works through each mem-
ber in ber in a diferent way, and for, a diferent purpose. If there whw no life in our bodiee the eyee could not teot, no






 proteot the body, en the hander roech


THE FARMER'S ADVOCATE
only make heautitul music if the organ- sick or sorrowing person fancy he has
blower does his bumble work. A great no opportunity for greatness. I think man like Bdison would probably be a God cares more for the quality than the
very poor hand at breadmaking, and a quantity of our work. It is beauty of very poor hand at breadmaking, and a quantity of our work, It is beauty of
learned professor would be a bungler if spirit that the King greatly desires to he tried to mend a shoe. A great surgeon, whe eon work miracles of healing with the shining tools he understands,
might make a very poor and impatient might make a very poor and impatient with a helpless, suffering woman.
Perhaps the hardest, most
Perhaps the hardest, most glorious duty anyone can be called to do is the
patient endurance of pain of heart or body. I have before me an essay called
"Tuberculosis and the Road to Eldorado," written by a brave consumptive, to be published after his death in
the "Journal of the Outdoor Life." He says that men may meet some ills. "with a snicker or a whine," but tuberculosis
is such a "tremendous thing that it brings is such a tremendous thing that it brings
to the surface all the powers of greatness that are hidden in a soul. .He
found out the wonderful truth that "it found out the wonderful truth that "it is possible to live a life as full, as deep,
as interesting, as. exciting, tied to a as interesting, as. exciting, tied to a
porch and an invalid chair, as when caught up in the whirl of a city's strife."
He discovered that the outside of life, which looks so real, is only like a paint-
ed curtain, which was rolled up before his quiet gaze, showing him the "true his quiet gaze, showing him women, acting under the im-
men and
petus of real emotions, unravelling the petus of real emotions, unravelling the
plot of human existence." He watched quietly the busy world, intent on success or pleasure, and his own suffering, dis-
appointment and deprivation burned into appointment and deprivation burned into
his being the stupendous secret "that his being the stupendous secret "that
man can live within this universe not

As it is in our bodies, so it is in the gifts which are given him in trust for Spirit gives wisdom and knowledge to spirme, favith and gitts of healing to
others, teaching, propheoy, etc. No one can have them all-only to Christ, our out measure." We should, the Apostle gitts--laith, hope and love-which we all ay possess; accepting cheerfully wh to bestow, and never envying our neighbors. We all want to be useful, but it is a stray. The eyes are of immense value to a man, but if his handital organs oars (not to spealk of the are are working steadily and silently within) became discontented with their work, and insisted on having the same
duty as the eyes, how helpless the man would be ?
So it is in the world. A great write or preacher eain help thousands, or mil-
lions of people. He is called to do a great work, and is of great value to the
whole community. But if every man set his heart on becoming a great writer or tion-the business of life would soon be at a standstill. To begin with, wo thould all die of starvation for want of of the miners.
"God hath tempered the body together having given more abundant honor to that part which lacked," says St. Paul,
and "our uncomely parts have more and "our uncomely parts have more
abundant comeliness." How true that
How a. We honor the eyes and ears. but we
can live without sight or hearing. We never give a thought to the liver or lungs-as long as they are working fo
us uncomplainingly-but we can't liv without these humble, unnoticed member of our bodies
Let us give up fretting over the gifts which are out of our reach, and joyously
serve our generation wherever and however our Head directs.
"Ann of Green Gables" thought no one
could be happy with red hair and even coupp be happy "wolth red hair, and even happy-hearted "Poollyanna" was far from
satisfied to have straight hair and
Preckles freckles. Those who are poor and busy
think they could do far better service think they could do far better service if
they were rich and leisured, those who are sick feel.as if they were shut out from the chance of helping anybody. Those who live in the country are apt
to feel that their opportunities are narrow, while those who live in the city
may be driven to distraction by the noise, glare, and whirl of life.
It is not our business to choose the It is not our business to choose the
post which seems the most attractive post ourselyes, but to do the work which God places in our hands and for which He has especially fitted us. To do
our own work cheerfully and faithfully our own work cherfuly
will bring happiness to ourselves and valuable help to others.
No one is given every kind of talent. Sir lives through his invention of so many lives through his invention of the of music that when his friends tried to teach, him the air of "God save the
King" they had to give it up as hope-
less who was held in such high esteem in Manchester that 40,000 people visited
the Town Hall where his body was laid the Town Hall where his body was laid
in state-was color-blind, and could not tell red from green.
A great genius is otten very helpless not nearly as satisfactory to his em-
ployers as a commonplace person. Sir ployers a a commonplace person. was so
Isacic Newton, when a bo,
hent on knowledge that when he was hent on knowledge that when he was
sent to the fields to watch sheep or
cattle he seat to the fields to watch sheep or
cattle he lost hinself completely in a
book and allowed his charges to go wherc they chlowed He chas warges to coreless and
whatidy in his dress and surprisingly untidy in his dress and surprisingly
absent- nuinded. Once he starled to
lead his horse up a hill phd found on


Ready for Play
having these, and laugh and grow and And storied urns record who rest below pass from thaderstanding unto under-
standing, thanking , God for giving him Not what he was, but what he should Onhat But have been: in the the fir and knows he will soon pass through the veil-has this great advantage over the healthy people who pity him in his weak-
ness.
He can weigh earthly gain more justly, valuing it very little. The praise
of men seems a trifling matter to who is called before the bar of the Great Judge, and a dying millionaire knows
that his wealth would be a very small price to pay in exchange for the health and lightly. This message of good cheer left behind
by the man who dared to say, as death by the man who dared to say, as death
dew very near: "I cannot regret that
I have had tuherculosis" have had tuberculosis," ends with these yond, is not for man to do. But if
there is a soul that can go through that he to whom tuberculosis has brought its
greatest teaching. With W. E. Henley, he, above all others may with under
$\qquad$
$\qquad$

## A True Story

## have all my life been an enthusiastle

 without dogs, and have seldom beon one to taree in the houn and rambles through the woods. Oh the jolly times we have had. We were living in the country, some years ago, and about a mile from us was a large wood, cut by a deep revine with an old sawmill at the top from which ran a rapid stream, bordered with a luxuriance of moss, ferns, and in the season, sucha wealth of lovely wild flowers; it was a paradise for us children and the two dogs, Thetis and Cadeau, who were in
the seventh heaven of delight hunting chipmonks and digging holes for various mice, etc. One spring, Thetis, a beauti-
ful Newfoundland. had a litter of puppies. One day, when they were only a
few days old, we started off on one a our rambles to the woods, and when Thetis saw us starting, she could not resist the temptation to follow, and came fun. On we all went getting welth fun. On we all went, getting a wealth
of treasure in our handkerchiefs, which of treasure in our handkerchiefs, which
we always gave to Thetis to carry for
us, This day as nual us. This day, as usual, we gave her the bundle containing our various finds,
but when we started for home the load was not to be found. She had dropped it ssomewhere in the woods, and as her puppies were her irst consideration, we
did not urge her to go back for it, and did not urge her to go back for it, and
the circumstance was forgotten. What wus our surprise, next 1 limorning, when we
went to visit her little family, to see there in the middle of the nest, the bundle, which she must have gone out a
couple of miles in the middle of the night to find. The little bundle had
been given into her charge, and although it, it must have been on her conscience. She knew that she was responsible for it, and at the first possible moment had gone that a dog has conscience, would and memory.
round "." the forms of life that surround us," says Maeterlinck, "not one,
excepting the dog, has made an alliance with us A for or with us. A few creatures fear us, most
are unaware of us, and not one loves

## Junior Beavers' Letter Box.

(For all pupils from the First Book to

Dear Puck and Beavers,-This is the first letter was in print. I am going My grandfather took it about seven mile on the fourth of March. In In summer the cat is wild. They could He is an egg-eater, too. It goes aroun in summer-time stealing eggs at night and that is the reason my grandmothe

I saw a picture of a beaver at work and a story. It was an interesting
story, and will be glad to hear som more about wild animals by Victor Wool lings. This is all. Good-bye Beavers. Sarnia Res.

Dear Beavers,-This is my first letter to your Circle. My father takes "Th it only this year, and he likes it ver I go to school nearly every day here are two departments in ou I am in the First English reader the Second French reader. We have tw good teachers in our school. One of the teachers boaras at my home. Th home, and I walk home to dinner ever
day. I have two little rabbits; they are great pets. They are black and white and very make faces at me when I look at them
I have also a nice pussy. cat to pla with. We have three horses; their names
are Prince, Dick, and John. Well, as are Prince, Dick, and John. Well, as
this is my firgt atter to

LOOK OVER THIS WEEKS LIST OF BARGAINS CAREFULLY, AND COUNT THE SAVING. WHAT WE OFFER NOW IS BUT A HINT OF THE WONDERFUL OPPORTUNITIES THE EATON WAIL ORDER WAY HAS FOR YOU. WHETHER YOU BUY THROUGH THESE ADVERTISEMENTS OR OUR CATALOGUE, YOU CAN ALWAYS DEPEND ON GETTING THE FULLEST SATISFACTION FROM EVERY VIEWPOINT, ELSE WE REFUND YOUR MONEY, INCLUDING SHIPPING CHARGES. SEND AN OR

## Have You Received Your Sale Catalogue Yet?

We want one and all to possess a copy of our latest and best Bargain Catalogue ever issued. It's a hummer for low prices, and for that reasonth of August) unto the sale mighty rush of orders. Share in the wonderful saving early. If you have not received a copy, please send us your name and address, and wo
will Immediately forward one.

## 136 THE LUCKY BLUE BIRD EACH 2 FOR <br> 25c <br>   <br> $\qquad$ <br> SACRIFICE STERLING SILVER THIMBLES 13c. each, 2 for 25 c  LESS THAN HALF PRICE SALE Of MNIVESES 39 c

 two the steel price. Amice 39C TORONTO -
useful size. Price.....

camp by the lakeside. We keep a boat about forty-five hens, four geese and four $\begin{array}{ll}\text { hungry for my letter when this reaches } & \text { camp by the lakeside. We keep a boat } \\ \text { you. YVONNE RICHARD (age 11). } & \begin{array}{l}\text { Father taught me to row two years ago. } \\ \text { This is all I have to tell you. }\end{array}\end{array}$ our YVNA
Urbinville, P. E. I. Dear Puck and Beavers, -This is my rat letter to your Circle. I am going tell you about Dear Puck and Beavers, -This is my
 about four miles long and one mile wide hive taken I can remember. I am 11
in some places. There are quite a few as long as
in are bass, and some pike in it. Why he day. Our teacher's name is Mr. Macon. I have three brothers and one sister. I
times takes me. In the winter-time
when the lake is frozen, I go and skate live on a farm of two hundred acres. when the lake is frozen, I go and skate live on a farm or tun
or slide on it.
There are quite a few
We have a creek running through our or slide on it. There are quite a few We have a creek rummer we have grand
bays in it. In the summertime there
pare a face, and in the supple come out from town to fun fishing. We have four ducks and
on d
some, as I lost two sisters inside of four
Would some of the Beaver months. Would some of the Beavers please write to to me, as I am sure
answer back. $I$ have a little nephew answer back. living with us; his name is Elmor Honey. He is fifteen months old. Well, I think I will close for this time, as my letter is getting rather long.
hope that it will escape the hungry VERA L. BRISBIN. p. b. VERA L. BRISBI. Book III.) Fenella, Ont., R. R. Ago. ${ }^{\text {(Age 11. B. }}$

## Honor Roll.

Doretta Weppler, Neustadt, Ont.; Ernest Doretta Weppler, Neustadt, Ont.; Ernest,
Gunning. Kirkton, Ont.: Bessien_Netriess,

"Old Fashioned Cleanliness"
cost our mothers many a "back-breaking" day. The "new fashioned" cleanliness costs only the price of a cake of Sunlight oap.

This purest of all laundry soaps has a gentle strength that moves dirt quickly without rubbing. And a $\$ 5,000$ guarantee proves there is no adulterant or impurity in it to injure the finest fabric or hurt the daintiest hand.

For the thousand and one soap uses around the house-there is just one soap-
Sunlight Soap $5 c$.

A BAR
All grocers sell and recommend it

 Park, Ont.; Amy Hillicker, Norwich,
Ont.; Gladys Morcombe, Pickering, Ont.; McLellan, Belwood, Ont.; Janet Mather Pana, Ont.; Janie Henderson, Kintore,
Ont.

## Riddles.

What is the difference between fish alive
and live fish? Ans.-There " a " dififer-
What is the difference between winter and summer ? Ans.-There's no (snow)
difference. difference. the first thing you do when
What is the What, is the first thing you do when
you get into bed? Ans. - Malke an impression
What is the longest word in the Eng lish language? Ans.-"Smiles," because
there is a mile letters.
When is a door not a door? Ans.Whon

## Funnies.

Freddie-I must have changed a lot,
Grandmother, since I was here last sum Grandmother, since I was here last sum-
mer. The chickens don't seem to know The story is told in Harper's of a little girl, aged four, who accompanied her
mother to the butcher shop. As she saw the sawdust-covered floor, she ex-
claimed: "oh claimed: "Oh, mamma, how many, dolls
this butcher has broken !"

Miss Wilkins, the primary teacher, was instructing her small charges.
one thing of impars
"Name one thing of importance that did not
exist a hundred years ago," said the exist a hundred years ago," said the
teacher. Ralph Franklin, an only child
who was seater


Robert-"Mamma, my stomach says it
is dinner-time.".",
Mamma-"'You'd better go and see what time it is." clock)-"Well, mamma, inspection of the
three minutes stomach's -
News just received from London, Eng
land, reveals a secret which will every child in the world, and a grea many grown - ups as well.
of the famous nursery anyme, author
".lot Mother Hubbard,", is made known.
"Her name was Sarah Catherine Martin "Her name was Sarah Catherine Martin.
She was the housekeeper of the Vicar of She was the housekeeper of the Vicar of
Yealmpton, in South Devon, and she
wrote her , poem, in the Yealmpton, in South Devon, and she
wrote her 'poem in the year 1805
Now, it happens that the church at Now, it happens that the church at
Yealmpton requires repairs for both its body and its tower; the rector of the
parish makes an appeal to the children parish makes an appeal to the children
of the world to send their pennies to him to assist in the rebuilding of the
church, in which lie the remains of the church, in which lie the remains of the
author of the immortal story of how
the old woman went the old woman went to the cupboard to
get a bone for her dog and found it "The original of the 'ditty' is now in
the library of the Squire of Yealmot and every person who sends a contribucopy of it." "-Canadian Churchman.

Mons. Bachelet, a Frenchman who has lived for the past twenty years in
America, has invented a train, operated America, has invented a train, operated space without wheels. It is pulled
aiong by magnetism from hoops or coils of charged electric wire placed at interhave beeng given proving the teastrations
of his invention, and it ity of his invention, and it is among the
possibilities of the future that men may travel with safety at the rate of threa
hundred miles an hour.

## " SOMETHING NEW FOR OUR

 Don't throw Readers." a old carpets Lhey are valuable. Send them to TheLondon Art Carpet Works and have them
woven into beautiful fuut rus. woven into beautiful fur rugs, equal in in
appearance and durability to the most expensive, imported rugs. See advertise-
ment on page 1214.

Club
Huckleberries in Winter. Whew : what a night ! Hubby takes of
his rubbers, puts insoles and socks to dry, then leans back in the rocking-chair with the children gathered around him, roads would be heavy for a horse if had to go for a doctor." You, too, are glad, but too busy to say much. The he tunes it, remarks, "There's a hockey match in the village I meant to take in this night." The Lesser Boy says, "There'll be some
tall wading going to school in the morning."
The Small Boy chuckles, "Mother, theresth a great big sthnowbank down by the milksthand, and I'm going to
build housthe there in the morning. It'sth justht like a housthe now only ing to the curved petal of a rose in
bloom on the bloom on the sitting-room table.
Whoop ! the wind shrieks arou
house, the eavetroughs rattle, and Hubby asks if the furnace, fire is all
right. You answer "Yes," but add that as you are not going to bed just yet, you will go down and fire up before
you do so. So it happens that after the others are in the land of Nod, you go down cellar with a lamp in your hand, and its light gleams on your gems of
fruit. Something impels you to them over, and presently you lift a geom of huckleberries.
Instantly you recall the day you picked
those berries, and, as you fire the furnace, you can almost hear the songs you Yang that night. you be open for awhile, and as you should the fire you live over again that day which you marked as a red-letter day of You get a good start. Everything necessary for the basket has been cooked the day before. Picking huckleberries is a picicic
which sharpens the appetite, and make provision for at least three you nary meals. You and Hubby are actually going to pick huckleberries, -the first
time for teri years. Only twice since your marriage have you dy twice since you want to make the most of your day vith him. scrou put on a gray-linen frock, for and you look anxiously at the sky. The weatherman is very undecided. Sometimes there is a spatter of rain, and
then, just when you decide to stay at home, there is a gleam of sunshine. The neighbors who are going with you call over to see what you are going to do, end you don't $k$ now that yourself.
About eight o oclock you decide to and the basket with its load of pro-
visions, empty pails, rugs visions, empty pails, rugs and oilcloths,
are put into the democrat and You are to call in the village for more passengers, but Hubby does not hurry
the horsses, for he thinks you will want
to turn wis to turn back when you you will wank the vil-
lage. Not you! You're though your passengers have given you up and have to be hunted up. Remarks
are passed concerning people crazy enough to drive miles to pick huckleberries in
the rain the rain, but you laugh, and go on with
your increased load. Rain, rain, rain. It pours just after you leave the village. There is a tricklo from your umbrella that will persist in running down your gown, and another
from the umbrella behind that will down your neck, but you are off for day "with Hubby, and you don't care.
Hubby has to call miles from the village, and while he is making his call a man passes who say it is going to rain all days. You begi give in. he is right, but you won't Rain, rain. Pools are standing her and there; the horses are aplashed with mud; the umbrellas drip teadily.
You peer out from beneath any cheer out from beneath yours to note
anges along the road. You look at the school where your niece taugbt,
but no brown eyes with

June 25, 1914
ro- auburn hair will be there, so you
look geross where ivive the genial couple
oith wham mhe berdel with whom she boarded. No one in
sight.
Your pariy are apparently the only lunatics about.
At the fountain, Hubby, waters the
horses, and someone says, . If we kne

 East. It is sixten years since you
were over this part of the rood, but you remeniber the little lake and the large,
red raspberries that grew on the long red raspberries that grew on the long
hill that is one of the main slopes down hill that is one of the maln slopes down
to squan River. They still grow so
close to the rond that yoll close to the rood they sou grow ouo
and pick two, declaring you have berries and pick $t w o$, declaring you have berries
anyway. anyway.
Past a sawmill where the shanty in
connection might shelter the party, connection might shelt
is probably locked up.
Past
Past huge boulders of granite, and
over some of them, too over some of them, too. Down the hills
and up again. Down over Squaw River and up again. Down vers Squaw River
and up on the other side. You have apparenty ly left the limestone behind and
enteren the zranite
formation. past a large patch of red raspberrios
which almost tempt you to stop. No You aro after huckleberries.
At the Buckhorn Rood the party turn
south. Soon Hubby stops where outh. Soon Huby stops where a
small, new barr, looks clean and invi-
ing, and wasks it we may have dinner in ing, and asks if we may have dinner in
the lamil. Everything around that barn the hastl. Everything around that barn
ts apick and span, and the owner is 18 spick and span, and the owner is
honppetily personifind
Beaskets are anpacked, hot water obtained at the house, and dinner is served Somee chickens come in, and you throw
some scraps outside tor them, whereupon one of the party says that the proper way to drive an animal is to coax it,
You reply that the rule works as well with the unfeothered as with the featherred hiped. Some one orlers to bet a
cent that the weather will clear after cinnor, but the bet is not accepted. men, your hout among them, appar, and
oner to take you to the berries. ofer to take you to the berries. Each
mal earries a pail, and you are some mhat surforsised to gee that the clouds are
whinnine and no rain is falling. of you so.
Acroas the road, through an oat field, Acrona the road, through an oat iela,
aberoas anature ifil wwiere wild straw-
berrices run riot, and out on to the bare limestone rock the path leads. You are surprised at this, but hurry after your
host. Who tells you he can hear the $\underset{\substack{\text { rapid. } \\ \text { resentlv } \\ \text { ren your host stops at the edge }}}{\text { and }}$ of the ledge and tells you with a sig-
nificant
gesture, "You can see some
 Milise and milese of tat limestone, with
Its characteristic covering of sumac and Its characteristic covering of sumac and
juniper.
Down, far down
below, runs the Mississauga River, inky black. You can hear the rapids now, and involun-
tarily you shudder, and you wonder how tarily you shudaer, and you wonder how
you vill gee across, thoush the other three men have gone ahead to prepare the way. But over there are the ber-
ries.
Miles and miles of granite hills you can see, and you know that their
sloping sides are covered with huckle
 to cross, and no briage, and no cano Your host leads the way, and you go
down. Surely some giant hewed out those steps for his own beneet.
feet broad and wo twee
feet down. feet broad and two teet down. Down,
down, down. You touch soil again, but still the path leads sharply down. OVer
a seventy-foot boulder, not of limestone, a seventy-foot boulder. not of limestone,
but of rounded granite.
The boulders now aro all granite. Mother earth has
been eurling on some gigantic rink in bygone ages, and has left her play things
Iying ie every position, till they have lying in every position, till they have
beem grown over by shrubs, and even beem grown
large
rrees. The path leads down to the river where there is an old dam, and you seek of
rapide now. You think of the Wreck the Hesperus, as the cruel, beautifu water dashes on. Your party rinse the
aand out of their pails and then hurry sand out of their pails and then hurry
and alonk up the bink otne on the bould-
are huekteberries
growing the ers now, but you leave them to top of
witho" coming back. Rut all the while you tak and haugh you will face that aptul water. Tuun-
ing . bend, you see the three men who


THE FARMER'S ADVOCATE

## understand how you will cross the river

 You have crossed several of the riversof Ontario at different times.
You have Toronto. You have crossed the Thames at and the Grand at various times and by
various kinds of trides the little foot bridge over the have trod Belleville. You have crossed the floating bridges on Pidgeon and Che
mong Lakes. ${ }^{\text {You cosed }}$ (iversed this same river sixteen years afo by an old bridge
you were nearly afraid to tread Now wou searrive alraid to tread on
bridge by which your are alingo to cross. Two boom logs are placed across the
The are river just where it leaves a small lake.
An uprooted tree is placed across these, some planks are thrown on the timbers,
and behold your hridge You think you can never cross, but When the oldest man of the party goes
aeross, though he is lame, you go too, but you are right glad of a helping hand
on the other side. Here arer berries at your feet. Your
leave the lower berries for those who
 zig-zag up the egranite slope,
Berries everywhere
Miles of them Growing in tiny cracks; growing in an
 clinging even where the rocks rise so
steeply that you dare not tread. You notice that what you had always Chought were berries wout thatway rubbed off, are a distinct variety, and
you fancy they are sweeter than the more beautiful bloom-covered variety. How quickly the berries ally your pail. You piek as rapidly as posible, ubt you
are getting more than berries out there on those granite hilltops. You are get ting a whif of your childhood days.
You forget for a while that You forget for a while that you are the
mother of eight chilldren, that there are shirts to mend and socks to darn. You forget even the baby for a little while,
and involuntarily you look south to see the wide, tumbling waters of blue Lake Ontario. South 1 Where is south ? Mor sun is apparently shining in the
northeast though: Hubbie's watch tolls you it is hall-past three.
The party have agreed to meot at the
 peil while you may.
The small boy of the party says he has his pail nearly full, whereat you exprese surprise, but he assures you that pit is $\begin{aligned} & \text { so because he has the bottom covered. } \\ & \text { Five o'clock. } \\ & \text { Hubby } \\ & \text { calls your but }\end{aligned}$ those o'elock. Hubby callis you, ${ }^{\text {Hen }}$ but thirty. You reluctantly leave the patch, cross the bridge, and start homewards.
The rapids are foaming white
and Cruel, andids the arrooteaming white and part of your bridge ise tossed like a match in the racing water. You watch
it go, and then begin the upward toil You are glad now that your childhood was speat among the hills. You learned here the trick of climbing easily, and it
tands you in good steand as you mount those gigantic steps. A pichic supper in the barn, berries much for your party, then for home One man has filled a largen milkpail, and
not a leaf or a stem in it.
Between What the party buy and what they have
picked. there are eight pails of herries picked. there are eight pails of berries in
the democrat when you start home. You meet others coming in who will perhaps camp several days. You envy
them, but there are home ties not to be them, but there are home ties not to be miles you sing anything you can think of. The song stops abruply sometime
when the horses trot through the yielding sand over a aranite boulder, and the
democrat pives a iounce that settles democrat gives a jounce that setles
your supper and the berries in the pails at the same time. You wonder it there
 of the times of your lite.
The evening mists are falling, and as you look back trom the uplands they
appear filmy and delicate as a bridalappear filmy and delicate as a bridal
veil fung sideways, decking the wood veil fung sideways, decking the wosd
with beauty. Another hill or two passed with beauty. Another hill or two passed
and the mist has covered all but the tree tops, giving one the weird sensation of
driving into a lake doted with islands While you laugh and talk and sing (oi croak) , you can see in your mind's eye
the tall figure of your host as he tells you the berries are over there. You ca
still see the black river, and hear the still see the black river, and he
purr of those white, cruel rapids.


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Peter Hamiton No. 4 Rake is the best you can buy, beacause it is the cleanest ratings im-
Peter Hamilton No. 4 All-Steel Rake


Angle forming thi uxte ite eatral neaf free.
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The Peter Hamilton Company, Limited, Peterborough, Ontario:


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Me. 11

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Baked in
Baked in a
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cakes beause they bake quickly'and evenly on all
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TO FARMERS Summer Season and Fall Socure good halo and make 12 Appointment next spriny. Farm help supplied from the OId Country.
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Cream Wanted

 Valley Creamery of Ottawa, Limited
either too large or too small inevitably
produce corns. If these should appear, much relief can
be obtained by rubbing with be obtained by rubbing with pumice
stone swore by remedy which our foremothers
crue a poultice made of bread crumbs that had been soaked in cider
vinegar for half an hour or longer. Ninegar for half an hour or longer. This
was bound on the affected toe over
night, after which the corn was easily night, after which the corn was easily
dislooged. This is in line with the
treatment treatment that prescribed the binding on
of salt-pork rind for a sore or stybe or salt-pork rind for a sore or stubbed
toe, and I have heard more than one old
Yankee Graybeard testify to Yankee Graybeard testify to it's onficacy.
There is nothing much more disastrous
for the foot's well-buing the oor the foot's well-being than wearing a
boot that is too short, for enlarged joints or bunions are the painful result.
Some relief is afforded such a conditio by wearing buniord plasters, which help
lessen the pressure lessen the pressure. Where there is much
inflammation surrounding the inflammation surrounding the joint, an
occasional painting with tincture occasional painting with tincture
iodine will alleviate the suffering.
People whose feet have a tendency People whose feet have a tendency to
perspire excessively should use borax in
the footbath, and then dust the feet thoroughly with lycopodium.
Mr. West
Mr. Weston, the champion walker, after
a long sprint, always bathes his feet in warm water in which a generous amount moval from this bath, he rubs his feet
enthusiastically for some a rough, coarse towel. For tired, aching feet, there is no better treatment.
Swollen ter bathing in water in which wood ashes
have been boiled. the water is strained before using. Some women cannot take a ramble of
any length without incurring blister
feet. feet. This can be obviated, at the outset, by rubbing the soles of the stock-
ings ings worn with pure castile soap, and
by softening the soap with water and
applying to the applyin
feet.
In summer, when the feet seem to tire
most easily, a satistying freshment follows satistying sense of re powder, slipping on fresh hosiery and a
change Not of shoes.
which one stands shoes, but the surface on foot-fatigue. The favorite foot-rug for
those obliged to stand a great deal, is the fibre matting made from. "oir,"' the
outer husk of the cocoanut. outer husk of the cocoanut.
most agreeably to the tread. Rugs ol this material, placed in front of the
stove stove, table, sink, or wherever the house
wite must stand for long periods, will Contribute the height of folly for the do-
It is ther care or
mestic woman to slight either mestic woman to slight either care or
shoeing of her "trillbies," for, day in an handicapping a good deal of worthwhil efficiency.-E. R. W., in Boston Cookin School Magazine

The Scrap Bag. Hanging a coat up by the loop at the
back pulls it out of shape. Coat hangers are inexpensive,
space in the wardrobe.

Ordinary fruit or red wine stains can be removed from table linen by means of
a few drops of thick sour milk. This should be left on for several hours, arter
which wash the spot in lukewar which
water.

## The best way to clean brushes. piece of soda about the size of a

 piece of soda about the size of a walnut should be dissolved in a quart of
nut wier Comb the hair from the nut shauler. Comb the hair from the
hot water.
brushes, dip the bristles downward into the hot water, and out again, endeavo
ing to the backs and haudies ing to bessible. Repeat this until the
dry as pose
bristles look clean, then rinse in cold water. The bristles should be fre and
or dried in the sun or near a fire not wiped, as this makes
does also the use of soap.
" SOMETHING NEW FOR OUR Don't throw away your old carpets.
They are valuable.
Send them to The London Art Carpet Works and have them
woven into beautiful fuff rugs, equal in appearance and durability to the most
expensive, imported rugg. See advertisement on page 1214.

bearings and in oil. Working parts easily accessible
THE PREMIER CREAM SEPARATOR CO. WINNIPEG TORONTO ST. JOHN; N.B.

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Flah, Poultry, Game, Eego and Vegetableo
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## pounty



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and fuel wanted. Good barn. Hemley, Box 33 ,
Glencoe, Ontario.

 son, York Post Office, Caledonia, Ont.
$\mathrm{W}^{\text {ANTED }}$ botling and mperienced milk-receiving to operate the thent
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News of the Week

 moav more wero bataly inverel. Tro ex.


The Oberammergan, Passion Play will be reproduced in England the first weeld
in July. As a license for its proin July, As a licasse for it pro-
duction has been refused, the play will be given in a large private garden near
Londion, the use of which has been Londion, the use of which has neen
offered for the purpose. offered for the purpose.

News has been received of the slaught-
er of ten thousand er of ten thousand men, women and
children, by White Woll, the Chinese brigand and his followers at the captur of the city of Tao Chow. After looting
the city, hundreds of the the city, hundreds of the people were
driven into the temples which were then set on fire and burned. White Woll and his band were surrounded by regular
troops but brokfo through and escaped.

Following a severe thunderstorm in
Paris (France) on the 15th Paris (France) on the 15th instant, th
streets of the city caved in in several places, causing the loss of a number o
lives. lives. The chasms were in some places Irom twenty to thirty feet deep. In one
street a taxicab was engulfed and both passenger and chaffeur killed.

The contract for salvaging the Empress of Ireland has ben given to the
Canada Salvage Co Canada Salvage Co. Expert divers have
been engaged, and it is expected that will take at least two months to comrlete the work. A refrigerator car will be kept at the whart for the storage of
such bodies as may be recovered. the salvage is completed the question the possibility of raising the vessel will
be considered. be considered.
$\underset{\text { A firm in Berlin has adopted a }}{\text { a new }}$ which gives each customer the coal weight of coal delivered. The weight of each bag is automatically registered.
and the total weight stamped and the total weight stamped on a strip
of paper inside a glass case which capnot be opened till the wagon is un loaded, so that fraud is impossible
This paper is given to the cussomer This paper is given to the customer,
who, aftar deducting the weight of the who, aftar deducting the weight of the
empty sacks, knows exactly the amount of coal received. A small extra fee is
charged for this service.

The Ivory Snuff Box.




 Reports of progrees to did not deare.


 them far better results than would have been the case had he kept in constant touch with their movements.
Hence, when he despatched Richard
Duvall and M. Dufrenne the little dealer of the Rue de Richelieu, to London, and the former's wife and, later
on, Lablanche to Brussels, he felt that he had done all that it was possible to do toward recovering M. de Grissac's He did not, it is true, dismiss the too grave and sinister a character to be
treated thus lightly. But he had the reated thus lightly. But he had the
utmost confidence in Duvall, and be
lieved lieved that the latter would without
doubt succeed in his quest. Since Duvall's departure, h9 had wait-
ed anxiously for the detective's ed anxiously for the detective's appear-
ance. He did not expect to hear ance. He did not expect to hear from
him, but felt convinced that within, the
next day or two hed
next day or two he would walk into
his office with the missing snuff-box in

It was tith some diamay, therefore,
 had been released dter dane. The belore latter
Bruseels police, atter the Brusels police, arter a most uncomfort-
able night in a cell, an experience for Which he know all, an experience for
he had Hartmanm to thank; and in desperation had decildod
to place the condition of afairs belore $\underset{\substack{\text { to place } \\ \text { his chiel. }}}{ }$
The later had heard him in silience.
A long conference followed, with the re sult that Dutrenne returned to Bruseels, bearing the mysteri uus message, subse
quently quent" "given to grace by Lablanche, to
play "The Rosary" upon the phonograph.
Sinco then the prafect had been in a
atate of protound agitation, although he carefuly poround agitation, although he
subordinates. The the the tract. from his subordinates. The gravity of trom issues
at stake tortured him ceaselessly and
 arrived trom Losomn, determined to as as
certian what progres arrived from London, determined to as
certain what progress, it any, hat been
made toward the recovery of his lost property.
He was bitterly disappointod to find
that Lefevre was unable s.ighterevere warouragement. to give him the
not, he believed passed into thex had not, he believed, passed into the hands
of their enemies.
Beyond that, he could say northing. Des. Beyond that, he could It was on the dê of the ambasea-
dor's arrival that Dufrenne appeared at he prefiggard, his ovee time, his face pale sunken Irom loss oyes bloodshot and
of sleep, his whole
 passed through some terrible experience.
De Grissac was closeted with fect at the time; but the man's appearance, his urgent request that he ses M.
L.efevre at once, geained
him medirete autonce, gee gained him an im-
The prefect and the ambassador sto The pratact and the ambassador stood
wititing his entrance, thair
with anxiety
The with anxiety. The expression upon the
old man's countenance confrmed their worst fers. Ho restaggenad into their
romen, grasping, the theck of a chair to to room, grasping, the back of a chair to
support himself: "He has given it up. The scoundre!:
the traitor the has given it up to save
himself and his wito himself and his wifi
The ambassador turned away with a The ambassador turned away with a
groan of despair; Lefevre stepped up to $\underset{\substack{\text { groane } \\ \text { Dutrenne. }}}{\substack{\text { en } \\ \hline}}$
"You mean to tell me," he cried,
"that Richard Duvall has proven false to his duty ${ }^{1}$ I cannot believe it."
Dutremne nodded "He gave it to Hartmann last night. saw him do it. Hartmann had
promised to let him go tree. They had
 who weakened frrst. The man--Wuvall-
gave up the box to save her trom dogave up the box to save her from d
ing so.".
"Then she knew where it was? ?" The prefect went over to the window
and looked out over the Seine. His and
anotions almost overcame him. The
loss of the box, ouvall's faithessess, his own failure-all plunged him into the deespest despair,
".non De muttered to himself.
."Duvall Duvall ! It is incredible !"
Suddenly he turned. The Suddenly he turned. The ambassador
had degun to question Dutrenne.
a. wWhat do. "What did this Dr. Hartmann do when
the hox was given to him ${ }^{2}$." ho asked in a voice trembling with excitement. aside the cross, and removed the paper that was hidden beneath it. He reand the paper. It contained nothing but a
fow of numbers.: I saw it as he held fow of numbers. I 1 . saw it as he held
it beneath the light."
De Grissac became De Grissac became as white as chalk,
and turning to Leefevre, cried out in a "It is all over! Nothing can be done
now, It is too late. Mon Dieut! what
 suddenly. "I must seo him. He is not
the man to do such a thing as this. must talk to him., Do not tell me that
 arrest.".
"Were they attempting to escape $?^{\prime \prime}$
w. "No, Monsieur. They were coming to
At least," the prefect remarked
At
 Hor that. $\begin{aligned} & \text { Bring him herobring them } \\ & \text { both here at once. } \\ & \text { them." must question }\end{aligned}$

Dufrenne turned to the door.
"In a moment, monsiour, they will bo ${ }_{\text {Grisseac sadly }}^{\text {Whan }}$
witho shall asee. I never condemn a vallout a hearing." As he hamn a man
vall and drace came into
Dut The prefect looked at his young aspoistant with an expression both grave and
sad. Ho had always been very fond od
Durall Duvall. He was fond oen him still. The
whole matter had hurt him whol mater had hurt him very deeply.
n. Dutall," ho sald, without further proliminaries, "M. Dut
that
you,
 deiliberately returned it it to
night and
and that ordder to secure your liberty
an "Yes." Duvall's wiito. Is this true $?^{\prime \prime}$
emotionless. Leteorere recoiled as the theugh he had ro
ceiver ceived a blow. "Can you dare to come
before me and tell mo such the before , me and tell me such a thing as
that $?^{\prime}$,
 not to tell, but they were torturing him, they were driving himere torturriog
I could not stand tit-
OhI could not stand it-I could not."
UTou should haye considered your duty, madgme, not yoursitared hund, youl
ro
marked the pretect collly, then turned "Xoung man," he said, "you have done a terrible thing. Perrape even now
you do tor realize how terrible a thing
Iregret that $I$ dell regret that $I$ did not inform you at
the time I hands, but the matedere the case in on on your
all costs, I wished to at
remain Now it makes little difererace. been carrying on with the foreign ofice
a correspondence regarding the relationa of France and England in the matter of
Morocco.
Many details been settled which, in the event of cer-
tain tain eventualities, would constitute the
joint policy of the two
twe hardly say that these details and policiee aro of such a nature as to
cause, it tion of war by the third nation in-
volved.
 cipher in use for such purposes, carried regarded as absolutely prool againet all antempts at solution. That desperato respondence would bopes or the mo well
knew, nad in our enemies, by bribing a subordinate,
did some time copies of many of the most io sportant
letters and documents at reading them, however, were fruitthey could do nothing. the key and the cipher were contained in the ivory snufi-box we do not know. serraps through Noe, the ambassador's
servant, although M. de Grissac is positive that he never under any circum-
stances made use of the cipher in the presence of a third parson. That they however, we now realize only too well.
When I told you that in When I told you that in the missing
snufl-box lay not only my honor but snuff-box lay not only my honor, but
the hoonor of France, I indulged in no extravagant statements. It is the
solemn truth. Even now, by means of the snufl-box and key which you have
delivered to them, our enemies have no doubt read the stolen documents, and are preparing to strike while we are as
yet unprepared." He strode up and down the
state of extreme excitement. "As a last desperate chance, I at-
tempted to send wyou a message means of the phonograph record. 1 secret of the box, and by destroying the
k9y, render it useless. If you hesitated o do this, fearing that should Hart-
mann discover that the key was missing he would refuse to liberate you, you are
worse than a traitor. You are a conCemptible coward. Let me tell you, M.
Duvall, if I had a son I should rather have struck him dead at my feet than this."
Grace began to weep hysterically.
"It was all "It was all my fault," she began.
told them the box was hidden in


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noom below. against my husband's
wishes." wishes." "Where were you, then, that you say it the room below'?" asked, Lefevre
suddenly. suadenily. laboratory, on the second
"In the lom hus.
floor. My husband was confined in the floor. My husband was confined in the
bbesement. I said I would tell-for they were killing him. He cried out to me,
forbidding me to do so. Then they forbidding me to do so. Then they
took me away to the room above." took me away to the rloom above."
"And left your husband alone, with with the snurfi-box in his po
"Yes."
"For how long ?"
lied, wondering at his question. she re"And you," exclaimed the prefect in a voice of fury, turning on Duvall, "were
left alone in this room, with the snuffboux in your possession, for ten minutes, at the end of which time you calmly turned it over to this fellow Hartmann. Mon Dieu I Why did you not destroy
it-crush it under your heel-anything to it-crush it under your heel-anything to
prevent our enemies from obtaining possession of it?"
He looked at Duvall, his face working He looked at Duvall, his face working
convuisively. tell you what I think of you." " "M. de Grissac," asked Duvall, his
face white, "had I destroyed the box, face white, had destroyed the box, read these documents yourself?" The ambassador gazed at him, puzzled for a moment. "Certainly not, monsieur," he replied. "I could no more
have solved the cipher than they could. It was for that reason that I was forced to carry the key about with me.
But it would have been infinitely better had the documents never again been
read than to have them read by our enemies." to have then read by ouf Without making any reply, Duval
placed his hand in his pocket and drew placed his hand in his pocket and dre
out, between his thumb and forefinger, tiny white pellet, no larger than the head of a match. "You are no doubt acquainted, M. de
Grissac," he said coolly, '"with your own handwriting ?" Naturally. What "My handwriting! Naturally. What of it ?
He He went toward the detective, an
eager look in his face. frenne. and Grace also crowded about, their expressions showing the interest
which Duvall's questions had aroused. which Duvall's questions had aroused.
The detective began to unroll the little Thite pellet with the utmost deliberation. It presently became a tiny strip of tissue paper, not over two and a half
inches long, upon which was written a inches long, upon which was writen a
series of numbers. "Is that, then, monsieur ?" he inquired carelessly, as he placed the strip of paper in De Grissac's
trembling hand. trambling hand
$\sim$ Moon Dieu
"Mon Dieu! The key !" fairly shouton the bit of paper. "M. Duvall, what
does this msan ?" doess this msan ?"
"It means, monsie "It means, monsieur,"' replied the de-
tective coolly, "that while I was left alone in the room down-stairs 1 tore off the lower half of your key, which,
tuckily. was of sufficient width to enAuckily, was of sufficient with a fountain
able me to do so, and with
pen I had in my pocket, wrote upon the pen I had in my pocket, wrote upon, the
seconnd atrip of paper a series of numbers taken at random. This series I placed in, the secret recess in the boox.
I. do not think it will prove of much use to our friends in Brussels."
".Duvall !" cried Lefevre, rushing forward with outstretched hands. "Forgive me ! Forgive me!'" He was not quick
enough, however, to forestall Grace who with one cry of happiness had flung hersel? into her husband's arms.
"Richard !" she cried, and then sank sobbing but happy upon his breast.
M. Lefevre seized his assistant by the arm and began to shake his hand in a way which almost threatened to dislo-
cate the young man's shoulder cate the young man's shoulder.
"My boy," he cried, laughing and cry-
ing at the same time. "Forkive ing at the same time. "Forgive me-
forgive me. I was hasty. I should have let you speak first. God be praised, everything is well. De Grissac
-think of it-they will puzzle their brains over that cipher for weeks and
weeks, and they will discover nothingnothing ! Is it not splendid!" He He braced him with ardor." "Magnificent Superb!"
The ambassador was no less overjoyed.
"Young man". he said, "we
the deepest apologies. No one could heve done better. I
the bottom of my heart
Dufrenne also oflered
Durrenne also offered his congratula"My friend," he said, "I have done you a great injustice. I saluto you,
not omly as a brave man, but as a very not ouly as a brave man, but as a very
sarewd one. As for me, I fear I am only an old fool."
Duvall patted the old man on the Duvall patted the old man on the
shoulder and smiled.
"A patriot, monsieur, and for that. I
honor you. I was luckily able to turn honor you. po thase fellows. But one thing you, and all of you, gentlemen, should know. Had II not been able to the latter would never have passed into Hartmann's hands, if I had died for it.'
"I know it, my friend. I was a dolt, even for one moment to doubt a dolt, even for one moment to doubt madame, your wife," cried Lefevre, seiz-
ing Duvall's hands in his. Grace looked ing Duvall's hands in his. Grace looked
proudly at her husband, her knowledge proudly at her husband, her knowledge
of her own weakness forgotten in the triumph that he had won.
"And now, monsieur," said Duvall, with a look of happiniess in his face as permission Mrs. Duvall and myself will begin once more our interrupted honey-
moon." The prefect put his arm about the de The prefect put his arm about the de
tective's shoulder, and gave him an affectionate hug. "My poor children," he cried, smilling "My poor children," he cried, smiling
at Grace. "In my excitement, my at Grace. In my excitement, my that you are only just married. And such a honeymoon as you have had! It is indeed shameful, and the fault is mine-mine alone. But I shall make
amends, my children. You have rendered both me and France a great service, and I do not forget it. I insist that to-night you shall dine with me.
"You, De Grissac," he exclaimed, turn ing to the ambassador, "will I know, be one of the party. And it is not ask you. Your service to France shal be acknowledged, in a more substantial way. M. de Grissac and mysell will
have the honor to present to you, M Duvall, and to your charming bride, some tokens of our gratitude and
esteem. After that - go - enjoy your esteam. Arter that-go- enjo,
He glanced at. his watch.
'"Madame, you are fatigued. You need rest-sleep. I insist that you permit Me to send you to my house, where Mme. Lefevre will have the honor you and make you comfortable. You, Duvall, can in the mean time make your arrangements for leaving Paris tonight, and also secure your baggago
from the pension in the Rue Lubeck where it awaits you. I mysell will accompany you, and render you any
sistance in my power., We will then rejoin your wife at my house, where M. de Grissac will meet us. What do you say ?"'
Grace clung to her husband's arm.
"T'm "'T'm afraid to leave him, even for a minute." she said.
Duvall pressed her hand, and noted her swollen eyes, her white and drawn "You have had a terrible night, dear," he said, kissing her, "and you must
have a few hours" rest. Go to have a few hours' rest. Go to M. Le
fevre's house and sleep for a little while. fevre's house and sleep for can scarcely stand. I will not be long." She gave his arm a little squeore, then
turned to the prefect. "I thank you, monsieur, and since my
hushand thinks it bsst, I will gladly go husband thinks it bast, "Good-by, Richard." She accompanied M. Lefevre to
the door. Two hours later Duvall, having made all arrangements for leaving Paris for
London that night, descended from tho London that night, descended from tho
prefect's automobile at the latter's house in the Rue de Courcelles. M. M. de Grissac, and were all seated about M. Lefevre's hospitable board.
Every one was in
Every one was in jubilant, spirits, and suffering of the past week was forgotten. De Grissac presented to the bride
a magnificent diamond crescent, and to a magnificent diamond crescent, and to
Duvall a gold cigarette-case of exDuvall a gold cigarette-case of ex-
quisite design and workmanship, while M. Leferre, not to be outrone, placed in Grace's hand a rare lace shawl,

[^0]

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| :---: | goot-by to Lo Duverrall came at last to say

were te tar
hat had no children of his his eyes. He
happiness on happiness of his two young friends had
been his happiness as well. The thought that he might never see them aghounght
him with a great sense of lonelines "Good-by, my dear boy" he said,
grasping Duvall's hand in both of hio as ha stood beside the the botho of his,
automotile which was of the
aut
 farm in your own country, and raise the
chickens, chickens, and the pigs, and, may 1 also
venture to hope" - he venture to hope" -he smiled meaningly
at urace- "the children, do not forget
your Duvall pressed his hand, while Graco hid her blueshes in the darkness of the
cab to you I I ove the poret, monsieur, that
sweetest sweetest and best wife in the world
Wo .s.all
you.,, meet you again, I promise "Good ! Y shall hold you to the
promise,, mun ami.
And if you do not
 difficult case which puzzles me, and
voila! The thing is done. You would
Tol not dare wat anse.'
you for assistance. Duvall upon the shoulder. "Ogo now my children. If you stay
Ionger I shall be unable to restrain my
tent
 walk, gazing atter them and waving his
handkerchief in tarewell handkerchier in farewew
"Dear
"Dear old Leforre," said Duvall, as
he drew Grace to him and kissed her.

## THE END.

Questions and Answers



 veteri-wany ar arent
enclosedy Miscellaneous.

often no enl. In the firgement is staticed, and very the
animal may be very lame at the thot
ae have heare


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itc-
horse disticN. Notice to Importers
C. CHABOUDEZ \& SO 205 rue La Fayette, PARIS, FRANCE If you. want to buy Percheron Horses and
Mares. $\begin{aligned} & \text { will save you time and monev and all } \\ & \text { Crouble with papers and shipment. }\end{aligned}$ Will meet
 $\frac{\text { ence. }}{\substack{\text { withest } \\ \text { Beferences. Correspondence solicited. }}}$ Clydesdale a n d Hackney Horses, Shetland Ponies, Brown SWiss Cattle.
Some nice young Hackeys and Shetlands for sale.
Stallions Mares and Geldings. Stallions, Mares and Geldings. Guelph, Ontario
Ralph Ballagh \& Son.

and red currants dropping off. My black soms, and just as the fruit set they nearly all dropped off the stem.
A SUBSCRIBER. Ans.-Since you do not mention insects
or fungus diseases affecting them, one or fungus diseases affecting them, one
must infer that the dry weather has caused them to drop. We have seen considerable drop from this cause. They
are still so young that they could only be expected to bear a very few at any rate, and it is not surprising that they
dropped. Cultivate them, and with dropped. Cultivate them, and with
sufficient fertilization, you need have lit-
tle fear of their failure to bear when a little older. Don't expect too big a
crop till they are out three or four crop til
years.
Treating Cut, White Pine Plantation, 1. How would you tr
horse's leg ? on stoney not workable land a on stoney, not workable land, a loam,
with hard heads, set five feet apart. How often will they need watering this
season? What should be their growth in 25 years?
3. Can interest be collected on a note
when due? Interest was not mentioned when due? Interest was not mentioned
on note? Ans.-1. Wash the cut out carefully
with warm water and thoroughly dres it three times daily with one part carbolic acid and twenty - five parts sweer
oil. If proud flesh should appear, or
the wound heal shwly the wound heal slowly, apply a littl
butter of antimony with a Peather 2. Would not advise watering.
may lose a few without may lose a few without, but they may
be replaced at much less cost and trou-
ble than the vatering is started, it must be kept t Prequent intervals all through the dry
season. Better not try it. We canno season. Better not try it. We cannot
estimate their growth. We recently saw
some sixteen feet high at five years some sixteen feet high
planted.

Oats and Roots for Pigs.

1. Will you kindly tell me what value
rnips have as feed for pigs, compared
with oats?
2. Could pigs taken off grass in fall
be finished upon turnips, and very littl grain? How many bushels of turnips would it take for about ten head?
3. Are trees around buildings a dange in time of electric storms, or would the 5. Is it lawful to have cattle, sheep
and hogs on highways? and hogs on highways
4. Can neighbors

$\qquad$
$\qquad$ too, are of more value in feeding grow-
ing pigs.
Heavier ing pigs. Heavier grain, as barley,
wheat or peas, is preferred for finishing. 2. Not very well. Turnips or roots should be fed more sparingly in finishing pigs for market. It requires grain to
finish pigs.
5. From one to two bushels of pulped roots daly shulld be plenty for ten
growine pigs, but of course, grain should be fed Thy are not neemssarily danceroust,
6. This is conernd by your lucal township
ties it is
7. Yes.


Fight Flies With Tanglefoot




THE O. \& W. THUM CO., Grand Rapids, Mich.
ill quickly remove Tang lefoot from
clothes or furniture $\qquad$


## SYDNEY BASIC SLAG <br> The Fertilizer that gave the best results on Fall Wheat

Hundreds of Ontario farmers applied Basic Slag costing $\$ 20$ per ton to their land last year against
Fertilizers costing $\$ 30$ per ton and are delighted rertilizers costing $\$ 30$ per ton and are delighted Our Maras.
Our Managing Director, Mr. C. R. Walker, will be in Ontario during July arranging agencies in
Perhaps yourrict
Perhaps you have heard what Basic Slag has one for others and that you would like to make a to join with some of your neighbors and get a car load.
If our proposition interests you make an appoint ment with Mr. Walker by writing

## THE CROSS FERTILIZER CO., LIMITED

SYDNEY
NOVA SCOTIA

## La-Lo"Animal Spray

Protect Cattle and Horese From Fiees

$$
\begin{aligned}
& \text { ENDORinion Experimental Farm Authorities }
\end{aligned}
$$

and Prominent Dairymen as being Superior to all other
Does Not Blister - Will Not ObJECTIINABLE FEATURES
O Cummy - Has Agreeahe lown:
 TOPPERS IN CI YDESDAUES AN have just landed a big importation of Clydes AND PERCHERONS stallions you ceversawest of quality, come and see me, I can show you the beet lot of
T. D. ELLIOTT
BOLTON, ONTARIO

## Imported CLYDESDALE Stallions

 $\qquad$
 and homederd of the most fashionable strain, see and select from the large stock now offered
D. MCEACHRAN, ORMSBY GRANGE, ORMSTOWN, OUE


## 

## DOMINION

 EXHIBITIONVICTORIA, B. C. Sept. 21 to 26

## Fच

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horticulture manufactures ART @
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Take advantage of this and visit British Columbia's Cap-
ital City. ital City.
For information and Prize Lists, apply to
GEORGE SANGSTER P.O. Box 705
VICTORIA, B. C. VICTORIA, B. C.

## CHOICE BULLS

Have two excellent bull calves left, which
are 9 and 10 months old. They are both are 9 and 10 months old. They are both
deep, low set calves, besides being good dandlers, and their bereeding in sitt edge. WM. SMITH, Columbus, Ont. Oakland-52 Shorthorns Present offering: one red bul just past two year
odo. Trae croses, rrom imp impock, ancostors alt
good individuals and pood mikers

Spring Valley Shorthorns
 Shorthorns For Sale
 and from heavy milking strain. Prices easy,
Stewart M. Graham, Lindsay, Ont. THE MANOR
Shorthorns and Lincolns Bulls and rams all sold; a a few females for sale.
Inspection solicieded Shorthorns and Swine ${ }^{- \text {Have }}$ choicce young bulls for sale, also cows and heifers
of show material, some with calves at foot.
Also choice Yorkshire sows.
ANDREW GROFF, R.R. No. 1, Elora, Ont. Shorthorns - boung bulls and heifers of the roans; growthy; good stock from good milting
dams.
Thomas Graham, R.R. No. 3, Port Perry, Ont. FLETCHER'S SHORTHORNS-Present offer
 Gerge E. Me.cher, Shorthorns "Trout Creek Wonder head the herdi, whic numbers abour sale at reasenable prices,
best quality for sont.
Duncan Brown \& Sons, R.R. 2 . Shedden, Ont.



Gossip. The Canadian Jersey Cattle Club was
one of the last of the purebred cattle
organizations to commence the work one of the last of the pure-bred cattle
organizations to commence the work of
registering in the National Live -stock
Records. However Records. However, since they commenced
the work has gone on very satisfactorily
till now there the work has gone on very satisfactorily
till now there are almost five thousand
registrations. registrations. The Club has also made
most exceptionally satisfactory strides in
Record Record of Performance work, and there are now about seventy cows which have
qualified for the Record of Performanco
yearly test yearly test. These represent animals
from a great many different herds, and imported animals as well as Canadian
and United States bred animals. JJersey cows from almost every province are
qualified in the Record Qualified in the Record of Perlormance.
However: it has only been within the last year or so that the breeders have
fully awakened to the great value to be derived from this yearly testing, and
now more breeders are entering most daily. Perhaps there is as great
value in this work from a selfish standpoint, that is that a man may know his
own cows, as from any other standpoint, but from a monetary standpoint
it helps one wonderfully when he comes to sell stock from Record of Performance
ancestors. It is most study the breeding of the cows which are
qualifying in this test qualifying in this test. Howerer, to
date there have been but two sires whose
names have entered names have entered the list. To be en-
rolled upon the list, a sire is required,
 two sires whose daughters have accomplished this are: Brampton Blue Beam,
bred by B. H. Bull \& bred by B. H. Bull \& Son, of Brampton,
Ont., and since in service in their herd, Ont., and since in service in their herd,
that of Jas. Bagg \& Sons, Edgeley, that of Joseph M. Dolson, of Allo, and
now stands at the head of the herd C. A. Julien Sharman, at Red Deer, Alta. The other bull which has qualihead of the herd of A. H. Menzies \&
Son origadier 695, at the Son, of Pent by C. Taylor, of Orford-
was bred by Wille, Wis., and is sired by Mary Maid's the families which produced some of the
cows which made Jerseys famous at the World's Columbian Exhibition at Chicago in the early nineties. Several
other bulls have daughters qualified, and it is to be be many more sires with sufficient
daughtery daughters qualified to have their names
on the honor roll.
Questions and Answers. Miscellaneoue.

Veterinary Books.
Could you give me information of any
company or publishing house selling company or publishing hole, up-to-date, stock-doctor book ?
reliable, Ans.-The Farmers' Veterinarian may postpaid. Clover in Corn,
Would it be advisable for me to sow
clover in a field now planted with hill corn, supposing it is sown as it is cultiWould it get root enough to make good hay next year?
Ans.-We have seen some excellent
catches of clover from this practice catches of clover from this practice,
although it is not very common. It should come on for a good hay crop next
year, provided it gets a good start this ${ }^{\text {yall. }}$ Bog Spavin and Thoroughpin.
Please let me know what cure to use
for a thoroughpinned one-year male colt? Shall I shut him in during treatment?
He also has a bog spavin commencing Give remedy soon as possible.
Ans.-Get a blister made of 1 i drams
each of biniodide of mercury and caneach of biniodide with two ounces vase-
tharides, mixed wo
line. Clip the hair off the parts.
Tie so he cannot bite them. Rub well with
the blister once daily for two days; on
he thind
ter and the third day apply sweet oil. Turn
loose in a box stall and oil every day.
As soon as the scale comes off, tie up and blister again. In place of the box
stall, it would be even better to have
him out him out on grass, except when it is
necessary to have him tied.


FIRM BUTTER Butter made from cream skimmed by the Standard cream sepa-
rator is noted for its firmaness This is due to the fact that the curved
wings of the Standard's centre piece prevents the breaking of the wings of the Standard's centre piece prevents the breaking of the
globules of butter fat during the process of separation. Just why the
curved wings of the


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Agencies almost Everywhere in Canada
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 W. G. PETTIT \& SONS, Freeman, Ont.
 "THE AULD HERD" We have a select lot of females of all ages, and of the best Scotch families for
sale. Also a March bull calf, red, little white an Orange a select lot of females of all ages, and of the best Scotch
sale. Also a March bull calf, red, little white, an Orange
Blossom by Broadhooks Ringleader. A. F. \& G. AULD, Eden Mills, Ont,

Shorthorn Catte of che popular familleol for sile Nine heifers just reedy for good colores, at prices within the recalhes by side or close to colvige; 10 bulis ready for rervice, of
Blairgowrie Farm, Myrte, C.P.R. and G.T.R. Jno. Miller, J., Ashburn, Ont.



 A. B. \& T. W. Douglas Long-ilstance Phome Strathroy, Ont.

BELMONT FARM SHORTHORNS
We are offering 20 heifers from 1 to 3 years, daushters of the 1913 Toronto Grand Cham-
pion, Missie Marquis 77713 , Scootch and Scouch Topped several of them show hefler:-





Willow Bank Stock Parm stividititivisi



 100

 3 SHORTHORNS =w․․․․․․․



Salem Shorthorns ${ }^{2}={ }^{2}=5$






## Auction Sale of Jersey Cattle

Tuesday，June 30th， 1914
 to freshen in June．This herd is headed by Lady＇s Joly of Don，agrand bull． 25 There propritar io siviving up business and is offecinge the product of ？
 Oak Grove Farm is seven munutc＇s＇valll from the station at Union lock \＆Mclaughlin In ROCK BAILEY，Proprieto

Brampton Jerseys
 s楊

Glenhurst Ayrshires

## Questions and Answers． Veterinary． <br> Pervious Urachus and Orchitis．

 Foal was born on May 20th，and afew days after birth I noticed that there was a constant escape of a yellowish
fluid from the navel fluid from the navel．Now the testicles
are badly swollen and the colt is getting are badly swollen and the colt is getting
thin．
P．McG． Ans．－It will be wise to get your vet－
erinarian to ligate the umbilical cord， erinarian to ligate the umbilical cord
first ascertaining that the normal pas
sage for the urine is open．If he has sage for the urine is open．If he has
been seen to pass urine in the normal
manner of course no mean manner，of course，no means need be
taken to open the passage．If you can－
not procure the services of veteri－ taken to open the，passage．If you can－
not procure the services of a veteri－
narian，get a mixture of equal parts of
butter of antimony and tincture of myrrh，place the colt on his back，and
dress the navel with the nixixture applied
with a feather，being sure to get it well with a feather，being sure to get it well
down into the opening．Dress twice
daily until urine ceases to pass．For
the swollen testicles． the swollen testicles，get a can of
antiphlogistine from your druggist，and
apply according to directions，and keep in place by a suspensory bandage．Apply a fresh poultice every 12 hours，and keep
colt as quiet as possible．
Two pigs about five weeks old partially
lost power of their hind legs，and their ears turned a dark color．With a little help they could get up and walk around，
and drink a little milk．They began to and drink a little milk．They began to
wheeze，could not breathe through their nostrils，but held their mouths open and
breathed through them．
J．D．
 faulty circulation，probably caused by
the throat trouble．They have quinsy，
The the throat trouble They have quinsy，
which is very diflicult to treat success－ fully．The mouth must be held open
by the use of a small clevice or other device．The glands of the throat will
be noticed to be quite swollen．These must be scarificd with a knife until they
bleed freely．As soon as free bleeding commences the head must be let down，
else the blood may pass down the wind－ else the chood may pass down the wind－
pipe and suffocate the patient．Rub the
throat well with mustard mixed with pipe and sulfocate me pacien，mixed with
throat well with mustard，
equal parts warm water and oil of tur－ equal parts warm water and ol of tlannel
pentine，and wrap well with cloths．Repeat this in 24 hours if not
relieved．
Swab the nostrils frequently with equal parts oil of turpentine and
sweet oil．

Miscellaneous．
Lump on Jaw－Window Shades．

$$
\begin{aligned}
& \text { 1. I have a three-months-old calt with } \\
& \text { a lump on its throat. The lump is not } \\
& \text { hard. }
\end{aligned}
$$

$$
\begin{aligned}
& \text { a lump on its throat. The lump is not } \\
& \text { hard. I have been bathing it with lini- } \\
& \text { ment, but it seems to be getting bigger. }
\end{aligned}
$$ ment，but it seems to be getting bigger．

Will it hurt the calf？It does not bother when drinking or eating．Is
there anything that can be done for it ？ there anything that can be done for it？
It is a bull call． 2．Is there any preparation used for
whitening cream window blinds？
 If it continues to grow，try the iodide－
of－potassium treatment so often given in these columns．
2．Nothin that we know
Cow Lost Calf．



Milks One Cow at a Time Having advantages：－In Weight；Size
of Pail；Pail Che of Pail；Pail Changing Idea，Keeps
Each Cow＇s Millk Separate；and Each achine Works Independently
$\qquad$
H．F．BAILEY \＆SON GALT，ONTARIO，GAN

## PREFDIDT SUSPENDER <br> NONE－5O－EASY

Gロロ GOOD LUCK 曰e
CALF MEAL
 tively，If your dealer＇s asleep write us

Allat Da
Allancroft Dairy and Stock Farm Beaconsfield，P．Q．．．Canad

1 fr for sale $\begin{gathered}\text { visiraspondence } \\ \text { or }\end{gathered}$
E．A．SHANAHAN，Secretary

| The Sire of King Segis Walker <br> Was the first sire of the breed to have a $30-\mathrm{lb}$ ．dam and $30-\mathrm{lb}$ ．grand－ dam．He is the only sire of the breed having a 30－llb．daughter whose dam，granddam and great grand－ dam have each produced a 30－lb． daughter．His three nearest dams have earh produced a 30 －lb．daugh－ a 30－lb．daughter，something that can be said of no other sire that ever lived．He is the only living bull having a two－year－old daughter with year．Just one of his sons for sale from the only cow in the world to self a 31－1b．cow． <br> A．A．FAREWELL Oshawa，Ontario |
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Mest For all Stock
"MAPLE LEAF" Oil Gake Meal
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What Every Dairyman lieets A dipip to hod the cow's tail while milling. Handy and desy to wous Saves she milikrs
 cow s taiddrese mith full information pas to
to any address wemem, upon receipt of 50 c .
how to use them
(fity cents) Address R. A. CHAMBERLIN 83 Beyswater Ave. CHAMERLCNa, Onturt

## Holstein-Friesian

 Association of Canada tion rezarding the far maer's most profitable coow
ehould be sent to the Secretary of the Association W. A. CLEMONS, St. George, Ontario 1 Holstein Bull, 16 months. 3 Holstein Bulls, 8 months and under 2 Canadian bred CAydesdale Stallions, R. M. Holtby, Port Perry R. R. 4, Ont Woodbine Hosteins Young bulls and bull calves, sired by Dube Beauty
Pietertie; sire's dam's record 32.52 Ibs butter, and


 Maple Grove Holsteins Do sou know that Tidy Abbekert Prince is the
only bull in the world that ined four 3 Bolb cows was bred at Marde Gt lesse than there areare just as as goon or better bred ones bere now, If you are inter
ested in this kind and anot oget one ar eray
sonable or live and lle live price ocme and se my herd, or write me for breeding and particulars
H. BOLLERT. R. R. No. 1. Tavistock. Ont The Maple Holstein Herd

 R.R. No. 5 - Inversoll. Ontario Holsteins and Yorkshir
 ond and sows tit to wean. $\frac{\mathrm{da}}{\mathrm{Fon}}$ full particulars wnite

Believes Armaments Necessary
Editor "The Farmer's Advocate As sour paper is continually taking the
unreasonable side of being arainst ments and militarism, I trust you will be good enough to publish this lett
giving the other side of the I suppose it is natural for persons living in the interior of a country to feel
a certain sense of security from any unseen enemy, but there is really no excuse for taking up the present attitude
paper does on Canada's paper say fou are ments. Who is, if this could be a avoid-
ed? But is not it a neecssary evil? For instance, it would be nicer if we could do without police, but these are Just as much is this the case with national police and their equipment. To-
day, we are all receiving the benefit of day, we are all receiving the benefit of we are not doing our share in contributing to its up-keep, which is a crying
disgrace to this country. disgrace to this country.
Supposing there was no British navy, where would we be For instance, we
might pass a law against Asiatics com
竍 might pass a law against Asiatics com-
ing into the country, but if Japan sent
ald along her navy, what could we do?
She would dictate her own policy to us, She would dictate her own policy to us,
or take the Western Province for all we
could do to prevent her or could do to prevent her. Or, still as-
suming we do not get Great Britain's suming we do not get Great Britain's
protection, say Germany desired to send protection, say Germany desired to send
out a lot her unemployed, or even
criminal clases wee might weekly criminal classes. We might weekly pass
a law to prohibit this, but thow are we a law to prohibit this, but how are we
to enforce it? Germany would dictate
her own wishes by sending some of her her own wishes by sending some of her
tieet over, and we would be power
less to do anything. Such supericial less to do anything. Such superficia
reasoning against armaments used in your paper is ridiculous. No one wants this burden, but under present racial Conditions it is a necessary evil. Therefore, let Canada do her share in
maintaining this country for the Anglo-
Sazon race, and not too weakly and Saxon race, and not too weakly and
meanly expect to receive all the benefits of British protection without doing our
share.
B.
C
Gossip.
big things at olympia It will be interesting to our readers $t$ the great International Horse Show held searly at Olympia, London, Eng. Thi
show recently closed after a very suc cessful fortnight of expibiting world's best horses, especially in the rid
ing classes. The number of horses en tered at the show was 4,183
prixe money offered $£ 11,000$. nations competed, and the cost portation of the horses alone amounte oo over $£ 10,000$. It required five hu
dred grooms to keep the horses and ap pointments in order, and five hundred other workers were kept busy around the
hhow building. Ten thousand square show building. Ten thousand square
yards of painted canvas were used, and
and preparation of the arena floor, this b
ing covered with one hundred tons o
tanbark. Three hundred loads of soi lanbark. Three hundred loads of soin
were drawn to prepare the flower - beds and twenty-five thousand square feet of
turf used in edging borders. While be curf used in edging borders. Whine b
ing exhibited, the horses consumed 3,600
bushels of oats. 1,000 bushels of bran 4,800 bushels of chaff, 2,400 trusses of hay, 500 trusses of straw, and 2,40
bundles of green food, using up also 1.200 bales of moss litter.
 perform
jumps.


Without a Silo no dairy can pay the profit that it should.

No dairy can pay the profit that it should without a silo. The average hay crop is less than two tons to the acre. The average silo crop is about fifteen tons to the acre. Hay is a dry food and contains but very few milk producing elements
Silage is a succulent food and is rich in milk producing elements.

Silage is a much better and cheaper food for dairy cows than hay.

If siliage is fed twice a day less hay and grain can be fed, while the production of milk will increase.

If you keep cows it will pay you to put up a silo at once even if you have to borrow the money to do it.

Our Ideel Green Frod Silo Book contains a lot of valu-
able information about silos and silage feeding. Every
cow owner should have a copy. Send for it-it's free.

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The only two world record Holsteins in Canada are owned by us. There are only three cows in the
world that have made over thiry pound butter. trine years
succession one one of then is Thee by us. The only bull in Ontario whose dam has given 116 bs. mik a
and made 34.00 lbs. butter in 7 days is owned by us. We have young D. C. Flatt \& Son tong-distance 'Phone R.R. No. 2, Hamiltiton LAKEVIEW HOLSTEINS

Senior herd bull-Count Hengerveld Fayne De Kol, a son of Pietertie Hengerveld's Count
De Kol and Grace Fayne 2nd. Junior herd bull Dutuchand oclantha sir Mona,

E. F. OSLER

BRONTE, ONT.
FAIRVIEW FARMS
Can furnish you a solendid young bull ready for immediate service, and gired by such bulls ae
PONTIAC KORNDYKE. the greatest producing sire of the breed, and aliso the sire of the greateat
 E. H. DOLLAR, Heuvelton, New York (Near Prescott, Ont.) HOLSTEINS $\begin{aligned} & \text { We have a choice lot of bull calves with strong backing ano } \\ & \text { from dams with records of } 18 \text { to } 24 \text { lbs. Just the kind you }\end{aligned}$

Three Dandy HOLSTEIN Bull Calves
F. HAMILTON, HAMILTON FARMS, ST. CATHARINES. ONTARIO ETMMDATE HOLETETNE

Sunnybrook Yorkshires and Holsteins ,uawew wis


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##  <br> WILSON'S FLY PAD. poison

Every ten cent packet will kill more flies than $\$ 8.00$ worth of anysticky fly killer.
Refuse substitutes, which are most unsatisfactory.


Alloway Lodge Stock Farm


condition in thitio country.) write tor
ROBT. MCEWEN
OXFORD DOWN SHEEP
WWe have the champlon OXtord fock of America,

 Peter Arkeil \& Sons, Teeswater, Ont. Duroc-Jersey Swine treentiff five sows
 MAC CAMPBELLL \& Sons. Northwood, Ont Morriston Shorthornsand Tam worths
 dandies, and twenty young boars fit for service
also some choice cosw and hiefersof the best milk-
Ing strain. CHAS. CURRIE. Morriston, Ont.
 from imported stock. Prices reasonable.
C. J. LANG, R.R. No. 1, Hampton, Ont TAMWORTHS - - Some choice young sows, farrow; also a lot of boars 2 and 3 months old.
Write for prices.

## TAMWORTHS

## HERBERT GERMANN. ST. four monts (GEORGE, ONT,

 GILEAD STOCK FARM OFFERS Sunnyside Chester Whites


Questions and Answers.
Miocallaneous.
Two Weeds.
I am enclosing a sample of two hive clover seed. Kindly name thin. 0 othen is a large quantity of it. Cos wo thely the seedsman we bought it from an ate
thing? If so, how? Ans.-No. $\mathbf{1}$ is Rocket, Arat fintrodives into Ontario in European Altails one
It resembles Wild. Mustard, but identified by the dark purple wete
the flower petals. No. 2 is the flower petals. No. 2 is one of the
mustards, but the plant arrived mustards,
poor condition that we are mot ante
which it Mustard. It depends upon the number af seeds per ounce, and the grade of and
sold you as to whether may be taken against the seller of the Administering an Eetate. My husband died last fall without a of rough land and a sawmill on it acrest machinery I sold to a man for four hundred dollars. The balance poselbly
at the outside would bring ter at the outside would bring two hundrod
dollars. There was $\$ 450$ owing mine dollars. There was $\$ 450$ owing when why
husband died. There are no ehildron. just an adopted son who is with me on the place. 1. Does the law force me to go through the surrogate court when 1
have not got the means to pay for have not got the means to pay for it?
2. Is there any other means of my get2. Is there any other means of my gee-
ting the deed? 8. I sold machinery to pay what was owing. Can the purchaser keep back part of the money on that account? He seems to think some of my
husband's folks can interfere. Ontario.
Ans.-1. It is necessary in your s. interest, and for your own protection, in Probably not-that is estate. 2. Probably not-that is to say, not with
less trouble and expense. 3. Yes; he is entitled to defer payment until after you have obtained letters of administration Com the Surrete Barnyard.
Concreter ing my barn45 by 90 feet. How should I go about it? Should this size yard be put in one sions, if so how large should the sec-
tion should the slop be made? Should I dig a trench along the back of the yard where I leave off the cement
and fill it with the mixture and join the oor to it? If so, how deep should it Should this yard have tile in it before starting this work, or does it need tile
if it has good fall
$\mathrm{W} . \mathrm{H} . \mathrm{B}$. if it has good fall.
Ans.-The greatest troublo in this case will be heaving from frost and checking rom the same cause. This work is
usually executed by first placing about 4 or 5 inches of sand and gravel, pre-
ferably gravel, as a foundation. Fine stone could be placed first and tamped and formed into a solid bed by wetting and tamping; then should come 3 or 4 tiones of concrete mixed in the propor-
tion of about 1 to 8 . Concrete should he so constructed that it will not
absorb water. otherwise you have more danger from frost. Consequently, a sur-
face coating varying from one-half inch ace coating varying from one-half inch
to three-quarters of an inch of a to 2 is abod proportion 1 work could he done in a solid block if and you would find it easier to get the
levels by doing it in parte which will not matter materially size of surface, however. should not le left
smooth for obvious reasons and should be crained and cross-grained. such as Tt seems extravagant to allow the drainare water and liculid manure from this ics you have for rutaining this it is hard to advise repardine the troncl It Will be sufficient provided it is hant
instal somestom of retaining


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